

JUNE 1997

#BXNBQLB***** 5-DIGIT 94402
||..||..||..||..||..||..||..||..||..||..||..||..||..||..||..||
#WBE0040S091 4#302612 C9

KEITH WEBER M/J 98
40 SEVILLE BALA 5
SAN MATEO WAY CA 94402-2831 #0045





©1997 S-B Power Tool Company

Ironically, its random action is amazingly consistent.

The 5" and 6" Bosch random orbit sanders take the guesswork out of getting a precision surface finish. Their unique dual-bearing pad mount system eliminates wobble and vibration. And the Bosch-pioneered pad dampening system controls speed to provide uniform finishing.

For additional accuracy, there's variable speed and electronic feedback circuitry which can be adjusted to any material for constant OPM—even under load.

Plus features like soft-grip tops, ergonomically designed handles and through-the-pad dust extraction bring comfort to the job.

For consistently superior surface finishing, the Bosch random orbit sanders are precisely what you need.

BOSCH



ENGINEERED FOR PERFORMANCE™

TAKE ANY 3 BOOKS FOR ONLY \$1.99 EACH

WHEN YOU JOIN THE ARCHITECTS & DESIGNERS BOOK SERVICE

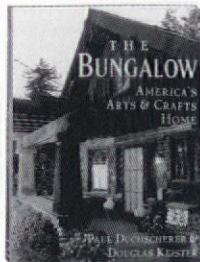
Values to \$100.00

You simply agree to buy three more books—at significant savings—within the next 12 months.

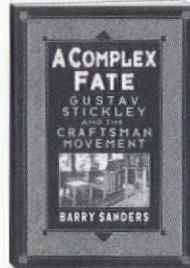
Publishers' prices shown



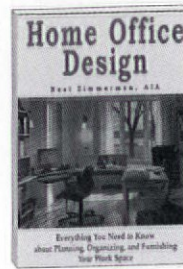
32671 \$19.95
American House Styles



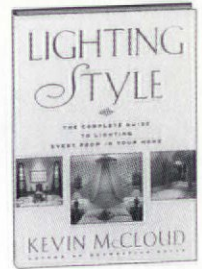
36975 \$29.95
The Bungalow



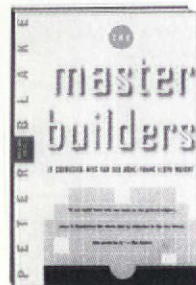
39839 \$29.95
A Complex Fate



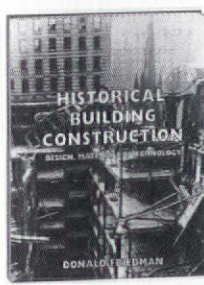
53408 \$19.95
Home Office Design



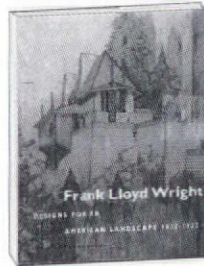
58490 \$25.00
Lighting Style



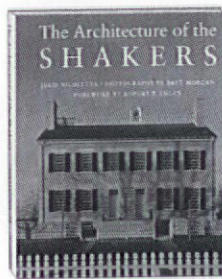
62597 \$15.95
The Master Builders



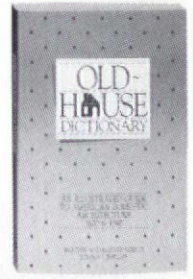
52993-2 \$50.00
Historical Building Construction
counts as 2 choices



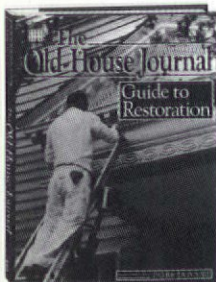
48677-2 \$45.00
Frank Lloyd Wright:
Design for America
counts as 2 choices



34227-2 \$40.00
Architecture of the Shakers
counts as 2 choices



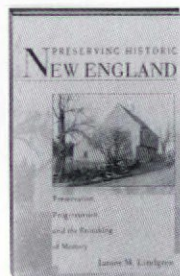
65224 \$16.95
Old House Dictionary



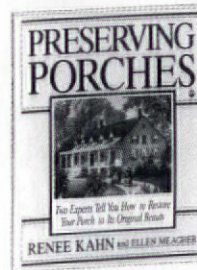
66115 \$35.00
The Old House Journal
Guide to Restoration



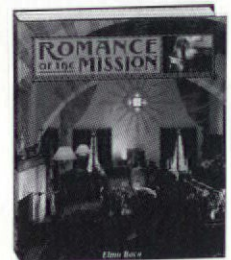
66310 \$26.95
Ornamental Ironwork



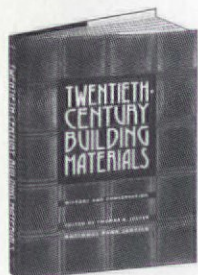
69959 \$35.00
Preserving Historic New England



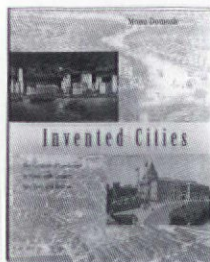
69978 \$19.95
Preserving Porches



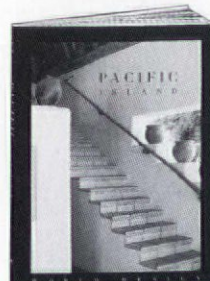
74301-2 \$37.95
Romance of the Mission
counts as 2 choices



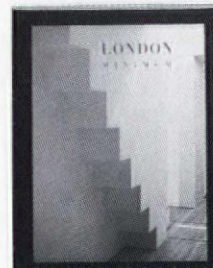
84918-2 \$55.00
20th Century Building Materials
counts as 2 choices



84984 \$30.00
Invented Cities



87564 \$27.50
Pacific Island



87563 \$27.50
London Minimum



78488 \$29.99
Small Space Living Design

MEMBERSHIP BENEFITS In addition to getting 3 books for only \$1.99 each when you join, you keep saving substantially with discounts of up to 50% off the publishers' prices on books you choose to purchase. • Also, with your first purchase of one regular selection, you'll earn Bonus Credits you can use to save even more. • When you qualify as a Preferred Member, you'll earn double Bonus Credits and enjoy other special benefits. • Moreover, our books are always identical to the publishers' editions. You'll never receive an "economy edition" with inferior paper and bindings from us. • At 3-4 week intervals (15 times per year), you will receive the

Architects & Designers Book Service News, describing the coming Main Selection and Alternate Selections, together with a dated reply card. • In addition, up to three times a year, you may receive offers of Special Selections which will be made available to a group of select members. • If you want the Main Selection, do nothing, and it will be sent to you automatically. • If you prefer another selection, or no book at all, simply indicate your choice on the card and return it by the date specified. • You will have at least 10 days to decide. If, because of late mail delivery of the News, you should receive a book you do not want, we guarantee return postage.

If reply card is missing, please write to Architects & Designers Book Service, Dept. 8-ES2, 3000 Cindel Drive, Delran, NJ 08370-0001, for membership information and an application.

NEWBRIDGE

©Newbridge Communications, Inc., a K-III Education Co.

OHJ 5/97



YOUR NEIGHBORHOOD STORE FOR CLASSIC HARDWARE

Now you can choose from the world's finest collection of arts & crafts hardware without leaving your home. Our craftsman line of hardware offers authentic bungalow reproductions, hand crafted with exceptional quality and detail.

The all new 404 page 1996 *Crown City Collection* catalog features the Arts & Crafts collection along with an unsurpassed selection of restoration and decorative hardware for virtually every style of home.

To obtain your catalog, please send \$6.50* to:

Crown City Hardware Co.

1047 N. Allen Ave., Dept EO57J
Pasadena, CA 91104-3298

*Refundable with first purchase. Please allow 6-8 weeks for delivery. For rush delivery, 1-2 weeks, include an additional \$3.00.

Since  1916

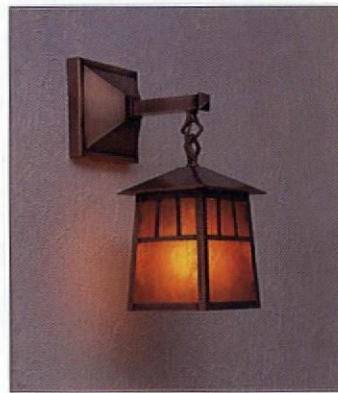
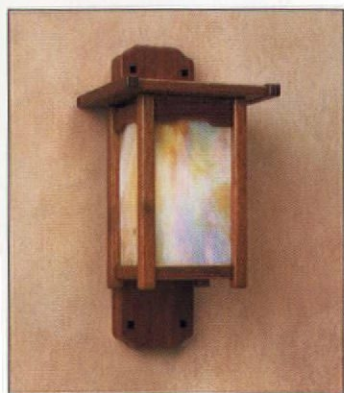
AS ADVERTISED IN AMERICAN BUNGALOW MAGAZINE



CLASSIC ARROYO STYLE



TIMELESS BEAUTY • UNCOMPROMISING QUALITY



For Information on our catalog or a showroom near you, please call 800 - 400 - 2776

4509 LittleJohn Street, Baldwin Park, California 91706 • 818 - 960 - 9411 • Fax 818 - 960 - 9521

All products are manufactured in the USA.

Table Lamps

Floor Lamps

Wall Mounts

Ceiling Mounts

Chandeliers

Sconces

Column Mounts

Post Mounts

Pendants



10" - 60 tooth



10" - 36 tooth



10" - 36 tooth



9" - 36 tooth



8 1/4" - 60 tooth



8 1/4" - 40 tooth



8 1/4" - 30 tooth



10" - 80 tooth



12" - 36 tooth



12" - 60 tooth



12" - 80 tooth

EVERYBODY KNOWS OUR BLADES ARE AMONG THE BEST AVAILABLE.

SO, WE JUST MADE MORE AVAILABLE.

American Tool Companies introduces the addition of 12 new, thin kerf MARATHON® blades. With our family of 22 blades we now cover all common applications — portable saws, miter saws, table saws, and radial arm saws. This newly expanded line offers the same C-3 carbide tips, hardened steel body and unique shoulder design* you know and trust, with more size and tooth options than most other brands. You know MARATHON industrial quality blades. Now,

we invite you to try out our newly-expanded lineup. We're sure you'll decide MARATHON blades are the only ones you'll need.

Look for them wherever quality tools are sold.

MARATHON™
THE LONG DISTANCE RUNNER™



8" - 30 tooth



7-7 1/4" - 40 tooth



7-7 1/4" - 24 tooth



7-7 1/4" - 18 tooth



7 1/4" - 24 tooth



6 1/2" - 40 tooth



6 1/2" - 20 tooth



5 1/2" - 24 tooth



5 1/2" - 16 tooth



3 3/8" - 20 tooth



5 3/8" - 20 tooth



5 1/2" - 16 tooth



TABLE OF CONTENTS

VOL. XXV, NO. 3

MAY/JUNE 1997

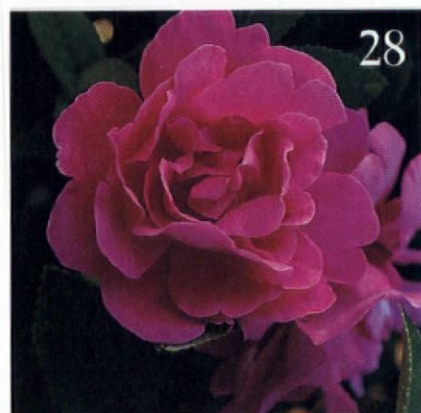
ESTABLISHED 1973

22 READING THE OLD HOUSE

Hipped and Pyramidal Roofs

Defining old houses based on the shapes of their roofs.

BY SHIRLEY MAXWELL
& JAMES C. MASSEY



28 OUTSIDE THE OLD HOUSE

Old Roses: A Sampler

Historic rose varieties to plant around your period home.

BY JO ANN GARDNER

32 HISTORY & TECHNIQUES

The Art of Ironwork

The richly wrought story of Victorian iron fences and railings, plus advice on upkeep and repairs.

BY HENRY J. MAGAZINER, FAIA

40 TECHNIQUES

The Underachieving Cantilever

A view inside the restoration of a landmark Prairie School house.

BY RICHARD L. KRONICK

ON THE COVER: A cast iron fence defines the yard around this shotgun, located in New Orleans, a city abundant with decorative ironwork, Victorian ornament, and deep porches.

COVER PHOTO BY FRANK GORDON

46 HOW-TO

Between the Cracks

Step-by-step log house maintenance.

BY TOM MOATES
AND DOUGLASS REED

52 HOW-TO

Making the Most of a Good Impression

The best ways to fix your embossed metal ceilings.

BY MARY ELLEN POLSON

56 KNOW-HOW

A Date with the Plater

A homeowners guide to making original metalwork look new again.

BY GORDON BOCK

60 OLD-HOUSE LIVING

Shipping Out with a Restorer

One husband's indoctrination into the busy old-house world.

BY JOSEPH MARRA



8
EDITOR'S PAGE

10
MAILBOX

14
ASK OHJ

20
RESTORER'S NOTEBOOK

64
RESTORATION
PRODUCTS

66
HISTORIC HOUSE PLANS

73 EMPORIUM
*Catalogs, Products & Services,
For Sale/Swap, Real Estate,
and Events*

CLASSIFIEDS 73
RESTORATION SERVICES 80
PRODUCTS NETWORK 84
ADVERTISERS' INDEX 94

98
REMUDDLING

100
VERNACULAR HOUSES

Please Fence Me In

THIS ISSUE INCLUDES SOME GREAT INFORMATION on working with wood, from rethinking log buildings to repairing a Prairie School masterpiece with engineered lumber. Nonetheless, I'm most attracted to the articles that make up the special theme on metals, perhaps because they each have a point of reference for me.

Exterior ironwork from the past comprises a world of surprising beauty and variety, especially when compared with the strictly functional, all-steel versions of our own era. Iron was a plastic medium in the hands of 19th century craftsmen, and they used it to adorn and protect houses of all economic strata—and literally at all levels. Fences or railings, when raised to the second storey, became balustrades for the balconies and verandas so closely associated with southern cities such as Savannah and Mobile. Cresting, as we learn, is just fencing at the top of the house, marking where the owner's property meets the sky rather than the street.

I know of no better example than OHJ's old neighborhood: Park Slope in Brooklyn, New York, one of the largest uninterrupted Victorian communities in the world. There, street after street of row houses are limned by stocky cast iron fences. Some are slowly self-destructing after a century of neglect, but many stand beautifully preserved or lovingly restored. Exterior ironwork represents a tremendous investment in materials and time—the metal fence and gate market was over \$180 million in 1995 alone—and it is well worth the effort to retain.

Indoors, every old house makes use of metal in both mechanical and decorative ways. One of the most impressive is the embossed-metal ceiling, a classic gaslight-era

material that finishes off countless interiors across the continent. Surprisingly, there's next-to-nothing written on the restoration of "tin" ceilings. The little practical information that does find its way into print—primarily on new installation for neo-traditional uses, such as restaurants—is almost as thin as the material itself. It's also not that useful if you want to save an old, existing ceiling. To solve the mysteries of dealing with paint and rust overhead, we drew on the advice of some local tin ceiling stewards and our own collective experience restoring the coffered beauty in OHJ's office.

Refinishing old-house hardware is subject we've wanted to brush up on since answering an Ask OHJ letter almost two years ago. A reader in Nebraska was perplexed about the piebald "zebra" finish on his bungalow light fixture. So were we until we talked to some experts. Turns out the surface was antique copper, a metallic effect that was highly popular early in this century.

Researching the article even sent me on a bit of a nickel-plating binge. My latest love is the 1897 General Electric fan you see blowing away on page 56, a \$3 find at a flea market that worked fine after a little electrical surgery. The surface, however, was another story. Gangrenous corrosion had eaten the blades, cage, and fittings down to their brass base. It looked like The Fan from the Black Lagoon. So, I found a company that plated and polished the parts to a factory-fresh shine. Here's hoping these articles are as useful a reference for you.



Yellin used monel, a nickel alloy, for the pedestrian gate at Yale Graduate School.



The genius of Samuel Yellin brought unmatched design and metalworking skills to wrought iron.

Golden Roel

OLD-HOUSE JOURNAL

EDITOR
Gordon H. Bock

MANAGING EDITOR
Josh Garskof

ASSOCIATE EDITOR
Mary Ellen Polson

CONTRIBUTING EDITORS

John Leeke

James C. Massey
and Shirley Maxwell

Marylee MacDonald

J. Randall Cotton

ART DIRECTOR
Inga Soderberg

PRODUCTION MANAGER
Jim LaBelle

DESIGN ASSOCIATE
Claire MacMaster

ART ASSISTANT
Susan Elisabeth Brillantes

CIRCULATION MANAGER
Ellen Higgins

RETAIL SALES ASSOCIATE
Cathie Hull

CUSTOMER SERVICE
Nicole Gaspar

MARKETING MANAGER
Michele Totten

NATIONAL SALES MANAGER
Becky Bernie

SENIOR SALES ASSOCIATE
Sherrie Somers

SALES ASSOCIATE
Nancy Bonney

ADVERTISING ASSISTANT
Shannon Tarr

OFFICE MANAGER
Joanne Christopher

EDITOR-IN-CHIEF
Patricia Poore

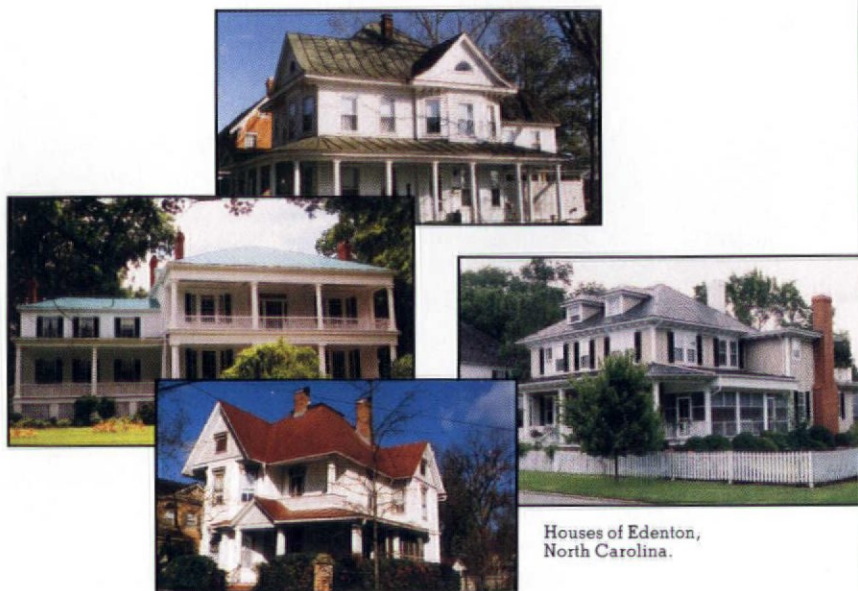
PUBLISHER
William J. O'Donnell

SUBSCRIPTIONS: Subscription service (800) 234-3797; back issues (available at \$4.95 per copy) (508) 281-8803. ADVERTISING: (508) 283-4721. EDITORIAL: 2 Main Street, Gloucester, MA 01930, (508) 283-3200. We are happy to accept editorial contributions to Old-House Journal. Query letters that include an outline of the proposed article are preferred. All manuscripts will be reviewed, and returned if unacceptable. However, we cannot be responsible for non-receipt or loss—please keep copies of all materials sent. POSTMASTER: Send address changes to Old-House Journal, P.O. Box 58017, Boulder, CO 80328-0017.

© Copyright 1997 by Dovecot Publishers. All rights reserved.
Printed at The Lane Press, South Burlington, Vermont.

PRINTED IN U.S.A.

*There's just something
about
an old "tin" roof...*



Houses of Edenton,
North Carolina.

...charm, beauty, longevity

The old "tin" roof—and some of them are still in service after more than a hundred years—never seems to lose its charm and beauty.

No wonder the tin roof—it's actually called Terne—is increasingly being chosen by builders and architects for both new and remodeling residential projects.

Terne also allows you to choose the color you want and special paints available from Follansbee will allow you to choose from many attractive finishes.

Terne will fit well with your roofing plans whether you're building a new house or just remodeling. For more information, call us toll-free, 1-800-624-6906.

TERNE...the beauty of color

FOLLANSBEE®

FOLLANSBEE STEEL • FOLLANSBEE, WV 26037

FAX (304) 527-1269

THE DETAIL SANDER FOR ALL YOUR RESTORATION JOBS.

FEIN TRIANGLE SANDER
SAND, SCRAPE AND SAW ALL WITH ONE TOOL.



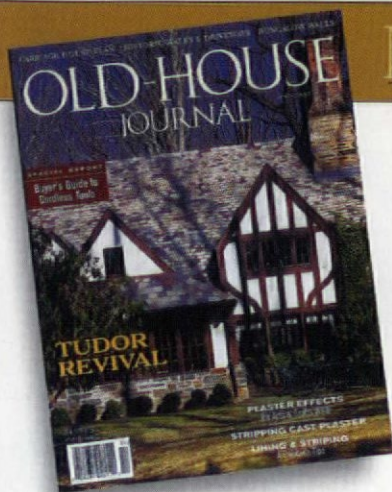
- SAND CORNERS AND TIGHT PLACES.
- SCRAPE OFF OLD WALLPAPER AND PAINT.
- MAKE INTRICATE PLUNGE CUTS IN WOOD, FIBERGLASS, SHEET METAL.

PERFECT FOR TRIM, STAIR RAILINGS, OLD SHUTTERS, DOORS, WINDOW SASHES — ANY OLD SURFACE YOU WANT TO LOOK LIKE NEW.
CALL (800) 441-9878 FOR FREE COLOR BROCHURE

FEIN POWER TOOLS, INC.

3019 WEST CARSON ST., PITTSBURGH, PA 15204
(412) 331-2325 FAX (412) 331-3599





M A I L B O X

HORSING AROUND

REGARDING YOUR LIST OF COLORFUL trade jargon ["Writing on the Walls," March/April 1997], "horse" has an interesting origin. As you explained, a horse is the wood backing for a metal template used to run plaster mouldings. It's my understanding that the word comes from early plaster shops, where templates for large cornices were attached to stocks and slippers and pulled by mules.

A phrase that mystifies me is "punch list." It refers to the work to be corrected or completed on a project, but does anyone know the phrase's origin?

— DAVID FLAHARTY
Green Lane, Penn.

ROAD WORK

IN HIS EXCELLENT ARTICLE "A Period Approach to Walks and Drives" [March/April 1997], author Michael Weishan makes a slight mistake. John McAdam (1756–1836) developed a road construction process that involved carefully graded stones: large stones on the bottom, small stones on top. The bed was coated with rock dust, but not with bituminous binder. The "macadam" road was ideal for horse-drawn vehicles, which compacted them into hard surfaces. Only after McAdam's time were tar and asphalt added.

— MARVIN H. ALLISON JR.
Acushnet, Mass.

You're right. McAdam's original road surfacing process included no bitumen. In 1815 London, McAdam began using compacted and interlocked layers of stone and stone dust to create hard-surface roads. Later in the 19th century, road builders coated the surface with coal tar or asphalt to weatherproof the rock. This new process was called tarmacadam (tarmac). In modern road engineering, macadam has taken on another meaning. It refers to a road surface made with a crushed rock base that's coated with asphalt, cement, or hot tar mixed with aggregate. —THE EDITORS

TWO-ACRE TUDOR

MEADOW BROOK HALL, ["The Other Proper Style," March/April 1997], is in Rochester, Michigan. It's location was incorrectly identified.

— ALICE SPANDE
Clarkston, Mich.



Meadow Brook Hall was built as a private residence in 1929 at a cost of \$4 million. The 100-room, 88,000-square-foot mansion is now a part of Oakland University.

OLD-HOUSE LIVING

THANK YOU FOR "SALVAGE LABORS" [March/April 1997]. Articles like this are the best part about subscribing. After seeing what Richard and Sharon Schmidt did to save that old carriage house, I know I'm [continued on page 12]

UN-MASKED MAN

I HAVE NEVER LIKED USING MASKING tape to paint lines and have used straightedges for years, but never knew it was a 19th-century method ["Victorian Lining and Striping," March/April 1997].

Your advice to use a dowel to guide the paint brush without touching the paint has improved my speed and accuracy.

— JOSH PARKER
Ft. Collins, Colo.



The original painting in the dining room of the White Farm Bed & Breakfast in Brockport, New York, includes Victorian lining discovered under many layers of old paint. Restoration by Christine Muratore Deats.

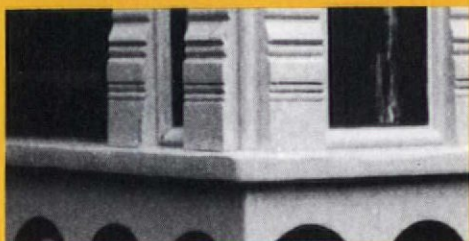
Wood Restoration System



This rotted – and irreplaceable – woodwork...



...can be easily and permanently restored...



...sanded, nailed, stained or painted.



10" rotted bottoms of these load-bearing columns...



...were completely sawed off and replaced with...



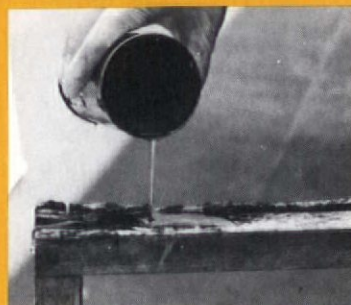
...WoodEpoxy, which outperforms and outlasts wood.

The New Standards To Restore & Replace Wood

Specified by the U.S. Government, national restoration centers, museums, architects, contractors and other professionals, Abatron's restoration materials handle virtually any wood repair problem. Results are guaranteed by years of incredible performance and our service.

LiquidWood®

Deep penetrating wood consolidant. High-strength and strong adhesion, clear, transparent, low viscosity. Regenerates and waterproofs wood by hardening after penetrating. Can be brushed or poured on. Ideal for rotted windowsills and frames, columns, doors, furniture, sculptures structural and decorative components of any size in/outdoors.



WoodEpoxy®

The most versatile, STRUCTURAL & decorative wood substitute & no-shrink adhesive putty used in any thickness to replace, repair, extend or fill wood and other materials in structures, frames, furniture, boats, components, sculptures, in/outdoors. Can be sawed, nailed, planed, stained, painted. Often stronger than the original, unaffected by water, weather and termites. A NEW STANDARD IN WOOD RESTORATION.



Abatron's **Wood Restoration Kit** contains **LiquidWood A** (resin) and **B** (hardener), **WoodEpoxy A** and **B**, and **Abosolv** solvent. Available in 5 pint, 5 quart, and 5 gallon sizes.

1-800-445-1754

<http://www.abatron.com>

414-653-2000

FAX 414-653-2019



ABATRON, INC.

5501 95th Ave., Dept. OH, Kenosha, WI 53144 USA

Since 1959, manufacturers of: Structural adhesives and sealants
Protective and waterproof coatings – Seamless floors – Grouts for pitted and spalled surfaces
Terrazzo systems – Expansion joints – Anchoring grouts for posts, precasts and structures
Underwater patching compounds – Resins for fiberglass and composites
Caulks – Crack injection resins

MAILBOX

[continued from page 10]
not alone. My salvage labors include rebuilding the 19th-century outbuilding—which includes a blacksmithy—behind our house.

—SARAH MASTERS
Roseburg, Oregon

ADDITION AND SUBTRACTION

WHEN IT COMES TO ADDING ON TO a historic property, many preservationists, like Mr. Norris ["Bucking the Standard," Jan./Feb. 1997], feel it's best if additions "blend seamlessly with the original." To see the problem with this thinking, you have to look beyond pure aesthetics and recognize the importance of historic structures as tangible records of the values, technologies, and lifestyles of their time. The Secretary of the Interior's Standards for Rehabilitation correctly

suggest that the addition will best respect the original house by carefully embracing its features, while maintaining a distinct character that accurately portrays a physical record of its own time.

—ANDREW CARPENTIER, R.A.
Chair, Oakland Landmarks
Preservation Advisory Board
Oakland, Calif.

MEDALLION MAKEOVER

SINCE I WROTE ABOUT REPAIRING my ceiling medallion ["Ceiled with a Kiss," March/April 1997], I have completed the restoration of the rest of my house. I was even lucky enough to locate an 1850s four-arm gasolier, which now hangs from the medallion.

For anyone who may be in the Galena, Illinois, area June 14 to 15, my home will be on a local house



The shades on the gasolier are from the turn of the century. Husfloen is looking for a more appropriate set.

tour sponsored by the Galena/Jo Daviess County Historical Society and Museum (815-777-9129).

—KYLE HUSFLOEN
Galena, Ill.

Sometimes it's hard to put a label on what helps you feel protected over time.



Long-lasting wood protection has been the singular focus of Cabot Stains since Samuel Cabot invented the very first shingle stain in 1877. Today, Cabot's comprehensive line of interior and exterior wood care products helps homeowners protect their investments with complete confidence.

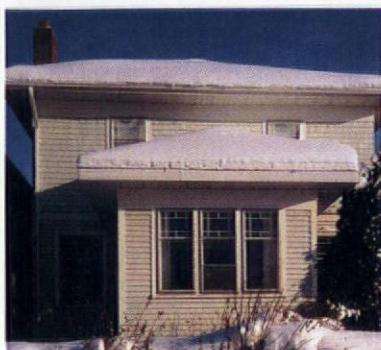
ACCIDENTAL PLANS

WE FOUND A DUSTY BOX AMIDST trash left in the attic eaves by previous owners. Inside were signed architect's plans ["Dream Come True," March/April 1997], bills for materials, and some family correspondence. The drawings indicate that a dormer is not original, or at least originally planned. They also show a built-in dining room cabinet where the door to the kitchen now stands. This fall we'll be moving the door to its original location and rebuilding the cabinet. The dormer stays.

— KITTY JAMISON
Columbus, Ohio

SASH SENSATION

I READ WITH GREAT INTEREST Gordon Bock's article, "New Century Sash" [Jan./Feb. 1997]. As you can



Wintertime in Ontario looks better through picturesque divided lights.

see from the photo, we have decorative upper sash in our house, built in 1925 in a gold-mining town eight hours north of Toronto. The house needs repair and enlargement, and we are anxious to preserve its character. Articles like yours help to teach us about its features.

— CAROLYN F. FRANKE
Timmons, Ont.

MASSEY AND MAXWELL TO TEACH COURSE

OLD-HOUSE JOURNAL CONTRIBUTING Editor James C. Massey will teach a two-week course on the restoration and preservation of historic houses at Drew University this summer. Through slide lectures and site visits, students will learn to recognize house styles and to understand prudent restoration methods. Shirley Maxwell, Massey's wife, business partner, and fellow OHJ contributing editor, will be a guest lecturer. Running from June 2 through 12, the class will meet Mon.-Thurs. from 9 a.m. to noon. For further information, contact Meghan Culbertson, Continuing Education, Drew University, 120 Madison Ave., Madison, NJ 07940, (201) 408-3185.

Sometimes it's easy.



*F*or project support and 4 oz. product samples,
call 1-800-US-STAIN ext. 416.

Ask OHJ

Send your questions to:
Ask OHJ
Old-House Journal
2 Main Street
Gloucester, Massachusetts 01930

WATTLE YOU HAVE

When we removed three layers of siding from our 150-year-old farmhouse, we found a brick filler between the studs in the first storey. It appears to have been installed from the interior. What can you tell me about this type of construction?

—Sandra Simmers
Purcellville, Va.

YOU HAVE A WALL FULL OF BRICK nogging, a masonry filler used as a firebreak and insulating material in houses built before 1860. Nogging typically was a mixture of rough-hewn wood slats or brick, bound in place with mud, straw, twigs, or grass. A close relative of wattle-and-daub construction, it was used to fill the wall spaces between vertical framing posts in timber frame and stone houses.

In the Middle Atlantic states, nogging was a common feature of



The brick nogging "insulation" in this northern Virginia farmhouse represents a building technique that dates to Elizabethan times.

the exterior walls of wood-frame houses built before the Revolutionary War, and in the interior walls of stone houses into the early 19th century. Nogging may have been a carryover from half-timbering, the English construction practice of covering the exterior of a building before filling in the frame. Although early American colonists began closing in house frames almost as soon as they went up, infilling apparently persisted long after the original purpose had been forgotten.

SLATE SPLASH

Our slate roof is nearing the end of its 60-year life. When we replace it, I'd like to use some of the old slate to tile a kitchen backsplash. Will this idea work?

—L. Bellerio
Red Bank, N.J.

THERE'S PLENTY OF HISTORICAL precedent for slate around sinks—although recycling old roofing slate for the purpose is a novel idea. Slabs

[continued on page 16]

LAMP WITH A MISSION

We were excited to see a table lamp identical to the one we own in the background of a photo of Patricia Poore, published last year. We've been trying to identify the lamp for years. Can you offer any help?

—Jeff Dziura
Western Springs, Ill.

ELECTRIC TABLE LAMPS FIRST appeared after 1900, displacing earlier electrified versions of oil and gas lamps. Freed from the need for bulbous oil fonts and chimneys, many took an angular, Gothic form in keeping with the Arts & Crafts aesthetic just hitting its peak.

Sears, Roebuck & Co. sold a metal Mission lamp similar to yours (and that of OHJ Editor-in-Chief Patricia Poore) between 1905 and 1910. The shade and base are made of green cathedral art glass, essential for softening the harsh glare of early (unfrosted) electric light. When the lamp is lit, the glass turns warm



The art-glass and ebony-finish metal base of this ca. 1910 Mission lamp may originally have been illuminated.

yellow. Undoubtedly this is a mass-market lamp, probably made by a small manufacturer—but exactly who that was, we can't say. We'd enjoy hearing from anyone who can shed more light on this lamp.

SCHWERD'S

Quality Wood Columns

since 1860

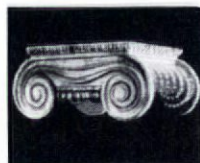
A.F. Schwerd Manufacturing Co. has been producing wood columns and pilasters for over 135 years. The wood is thoroughly seasoned pine for exterior use; additional lumber species available for interior. Production begins with a minimum 2" shaft wall thickness using solid piece lumber (no finger joints) resulting in a quality, durable column. Columns are available in diameters from 4" to 50" and in the length required for your specific installation up to 35'. To assist in your restoration projects, we can manufacture columns to match your existing design. Capitals, shafts, bases and plinths can be purchased separately.



No. 140 Scamozzi

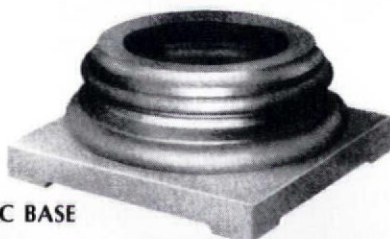


No. 150 Roman Corinthian



No. 142 Greek Ionic

Our ornamental capitals are made of a hard, durable composition suitable to withstand the elements. Additional styles are available.



#130 ATTIC BASE

Our complete aluminum bases are manufactured of thick metal and are recommended for exterior columns for a seamless base that will last a lifetime. The aluminum plinths are ventilated for air circulation through the column shaft. Complete aluminum bases are available in three architecturally-correct styles for even diameter columns from 8" to 30".

Call or write for our free catalog

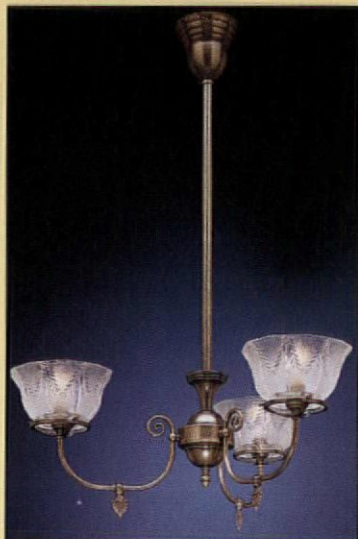
A.F. SCHWERD MANUFACTURING COMPANY

3215 McClure Avenue, Dept. OHJ • Pittsburgh, PA 15212

Telephone: (412) 766-6322 • Fax: (412) 766-2262

"Life is Colour
and Warmth
and Light."

J. Grenfell



Cast a warm glow with authentic reproduction lighting, handcrafted in the same manner and of the same materials as the originals. Choose from over 250 chandeliers, sconces, porch-lights and lamps in Arts & Crafts, Victorian and Neoclassic styles.

Request our FREE
68-page catalogue.



REJUVENATION LAMP & FIXTURE CO.

1100 S.E. Grand Avenue
Portland, Oregon 97214
(503) 231-1900

Toll-free fax: 1-800-LAMPFAX (526-7329)

Ask OHJ



of soapstone and slate were common backsplashes for dry sinks before the advent of indoor plumbing. In the first two decades of the 20th century, you could order a slate laundry sink from a catalog, says Jeffrey S. Levine, an architectural conservator with John Milner Associates.

Most residential roof slate is standard grade, which has a uniform appearance and a width of about $\frac{3}{16}$ ". You or your tilsetter should easily be able to cut the slate to size with a wet diamond-blade saw. The slate tiles can be set in place using the same mortaring techniques you would use for any heavy tile.

Use only sound slate that shows few signs of flaking or delamination. Since the stones will be weathered and dirty, clean them with soap and water. Once the backsplash is in place, protect the slate in its new habitat with a coat of boiled linseed oil.

STAVE-ING OFF PROBLEMS

The columns on my ca. 1911 Neoclassical Revival house are relatively soft and some of the wood is split. How do I relaminate them?

—Kevin Hennings
Monroe, N.C.

In humid North Carolina, wood columns are especially vulnerable to moisture damage.

BEFORE YOU CAN REPAIR THE splits, you need to determine what kind of column you have, says restoration consultant and OHJ Contributing Editor John Leeke. If the gaps are irregular and tend to spiral, the column may be hollow-bored from the center of a tree trunk, or a solid blank cut from the heart of a tree. If the splits are straight and parallel, the column is stave-built—pieced together out of long shafts joined by any one of a half-dozen techniques.

Given the age and design of your columns, it's most probable that they're stave-built. You can repair splits with the column in place if the loose, open joint is less than $\frac{1}{8}$ " wide and can be moved back together by hand.

To make the repair, move the wood back into alignment and apply an epoxy adhesive formulated for wood. Use band clamps to hold the joint together. If the joint doesn't close with hand pressure, don't try to force it closed with the band clamps. If you do, you risk forcing open another joint or splitting the shaft.

The ONE SOURCE for all of your RENOVATION and BUILDING needs.

solid brass drawer and door hardware

floor and wall coverings

sinks, tubs, basins

lav sets, kitchen and tub faucets

solid brass lighting

over 2,000 building and renovating essentials

free catalog

1-800-659-0203

Ask for Dept. 2467, or write

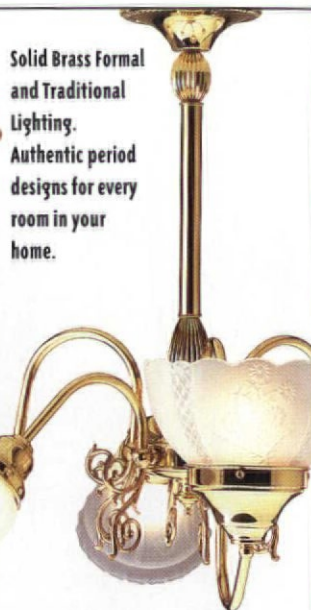
RENOVATOR'S

P.O. 2515, Dept. 2467, Conway, NH 03818

Lav Sets and Faucets. Ceramic washerless design surrounded by solid brass.



Solid Brass Formal and Traditional Lighting. Authentic period designs for every room in your home.



Ceiling Medallions, Corner Medallions and Pediments. Add the period look of plaster without the mess or cost.



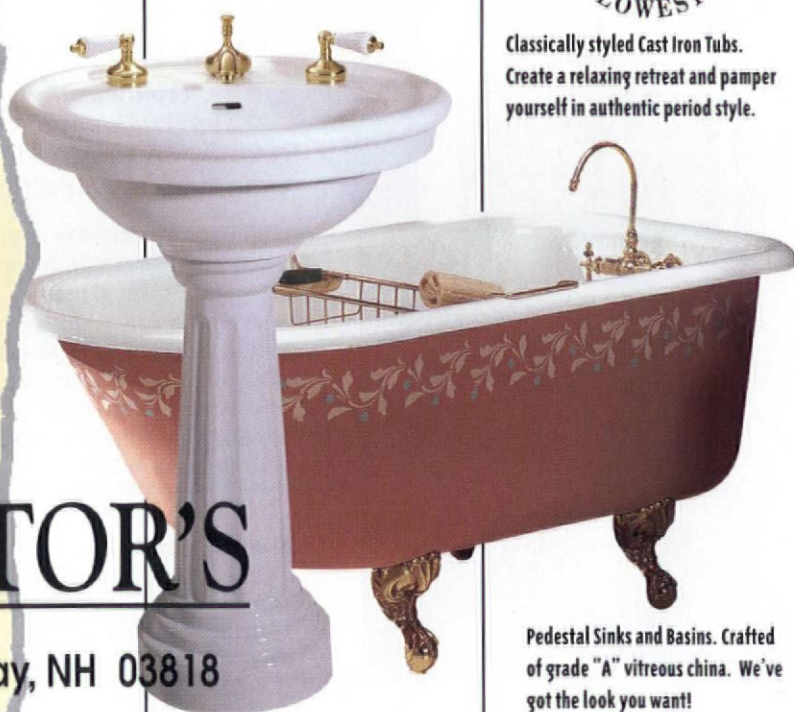
Solid Brass Door and Drawer and Cabinet Hardware. The best and widest selection anywhere, treated with our exclusive RSF no tarnish finish.



Authentic Oriental Style Rugs and Runners. Enjoy the look, feel and quality of fine Orientals at a fraction of the cost!



Classically styled Cast Iron Tubs. Create a relaxing retreat and pamper yourself in authentic period style.



Pedestal Sinks and Basins. Crafted of grade "A" vitreous china. We've got the look you want!

BUILT TO LAST UNTIL THEY REALLY ARE OLD.

Door & cabinet hardware for old or new homes.



NW-69, Deco



NW-2, New York



NW-219, Victorian



NW-68, Prairie

NW-168, Meadows



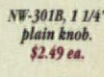
Enlarged to show detail.



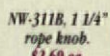
NW-170B, 3 1/2" cast bin pull.
\$4.99 - brass \$6.99 - chrome



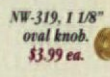
NW-50B, 2" flush catch.
\$7.99 - brass
\$8.99 - chrome



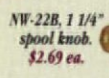
NW-301B, 1 1/4" plain knob.
\$2.49 ea.



NW-311B, 1 1/4" rope knob.
\$2.69 ea.



NW-319, 1 1/8" oval knob.
\$3.99 ea.



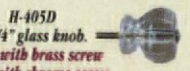
NW-22B, 1 1/4" spool knob.
\$2.69 ea.



B-16, 3 1/2" bin pull.
Authentic stamped brass.
\$4.50 - brass \$5.20 - chrome



B-17A, 3" handle.
Glass with metal screws.
\$12.93 with brass screws
\$11.25 with chrome screws



H-405D
1 1/4" glass knob.
\$4.71 with brass screw
\$3.87 with chrome screw

DOOR HARDWARE PRICES

Long Backplate Sets:

Passage Function: \$49.99

Privacy Function: \$59.99

Mortise Lock Function: \$69.99

Round Backplate Sets:

Passage Function... \$39.99

Privacy Function... \$49.99

Components Only:

Long Plates... \$11.99 ea.

Knobs... \$11.99 pr.

Quantity discounts available.



NW-14, Springfield



NW-6009, Glass & Rope



NW-119, Eastlake

Satisfaction Guaranteed
or your money back.

FREE SHIPPING

On orders over \$100

For a limited time only.

FedEx.
Federal Express

To order or for more information, call:

1-800-522-7336



Nostalgic Warehouse™

Nostalgic Warehouse is a trademark of HARDWARE+Plus, Inc.
Fedex trademarks used by permission.

LOOKING FOR "INVISIBLE" STORM WINDOWS? HERE THEY ARE!

Historic
Property Owners
Renovation Contractors
Commercial Buildings

You will see the energy savings

Not the Storm Windows

Match Any Color

Match Any Shape

Inside or Outside Mounted

Inside or Outside Removable

Screen and Glass

Fixed- Magnetic- Sliding- Lift Out

Unlimited Possibilities

ALLIED WINDOW, INC.

2724 W. McMicken Avenue

Cincinnati, Ohio 45214

(800) 445-5411 (TOLL- FREE)

(513) 559- 1883 (FAX)

"Where custom work is standard"



DECORATING EDEN
A Gardener's Inspiration for Your Garden
 by Deborah L. Johnson

The Old-House Journal
Volume 14 Number 1
January 1991
Guide to Restoration
\$4.95

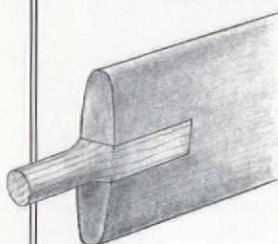
*House Styles
in America*

18th, 19th, and 20th Century
American House Styles
from the
American House

RESTORER'S NOTEBOOK

OPEN AND SHUTTER

I REPLACED BROKEN TENONS ON our adjustable shutter louvers with wood chopsticks. Select chopsticks that are round at one end and square at the other, and stick with bamboo. Remove the damaged louver and cut a mortise for the square end of the chopstick. Next cut the chopstick to length, and put glue on the mating pieces without getting any onto the new tenon.



Place the chopstick segment so the transition between its round and square ends falls at the edge of the louver.

Then jackknife the parts together in place, and clamp to dry. (Tight rubber bands make good clamps.) Apply wood putty as necessary, and sand before painting.

—ALLEN S. JOSLYN
Montclair, N.J.

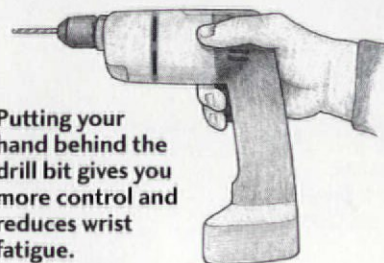
CHASE SCENE

IF YOU HAVE INTERIOR WALLS I opened up for any reason, take the opportunity to provide a chase for future wiring. We cut through the wall plates and flooring with a hole saw and joined lengths of PVC to run from the basement to the attic. Then we cut access holes in the pipe at outlet level on each storey. We'll hide these locations with electric panel covers. The conduit will enable us to run lines between storeys for telephones, cable television, electricity, a security alarm, and whatever else we want. It'll require only limited snaking of wires through the walls.

—JAMES DE FORD
Wilmington, Del.

STRAIGHT SHOOTER

I FAVOR MY PISTOL-GRIP CORDLESS drill over the new T-handled models because it allows me to hold the drill more effectively. Instead of grasping the handle, put your hand



Putting your hand behind the drill bit gives you more control and reduces wrist fatigue.

up higher, behind the motor. This gives you more control and cuts down on sore forearms because your hand is in-line with the bit. Use your ring finger and pinkie to operate the trigger. The technique takes some getting used to, but after 10 years as a union carpenter, I can tell you the reduced wrist fatigue is worth the effort.

—MICHAEL STEELE
Elgin, Ill.

COMFORTABLE COFFEE BREAKS

I'D LIKE TO SHARE SOME SIMPLE advice that helps when you're doing a major restoration while living in an old house. Get a ratty chair (preferably a recliner) from a thrift shop or a friend's basement, cover it with a washable throw blanket or sheet, and set it up right in the middle of the grit and dust. It'll give you a chance to take breaks without having to decontaminate yourself.

—LAURA WALKER
Washington, Penn.

BIT PARTS

TRY USING OVEN CLEANER TO REMOVE wood pitch from toolshop bits and knives. Simply spray it on, and wipe it away in two minutes.

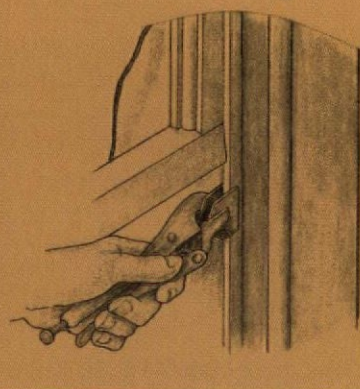
—GREG JOYCE
Red Bluff, Calif.

PARTING WORDS

OVER THE YEARS, I HAVE RE-strung most of the sash weights for our 35 windows. I broke many a parting bead until I stumbled across the perfect tool for removing them intact. First, I use a putty knife or utility knife to break the seal of the paint, caulk, or varnish. Then I grab the bead with one or two locking seamers—basically duck-billed locking pliers sold for metalwork. Locking seamers have wide jaws with no teeth, so they're ideal for grabbing and locking onto the

bead. Once you have a good grip, gently wiggle it free. Start at the bottom and work slowly, especially where the meeting rail covers the bead.

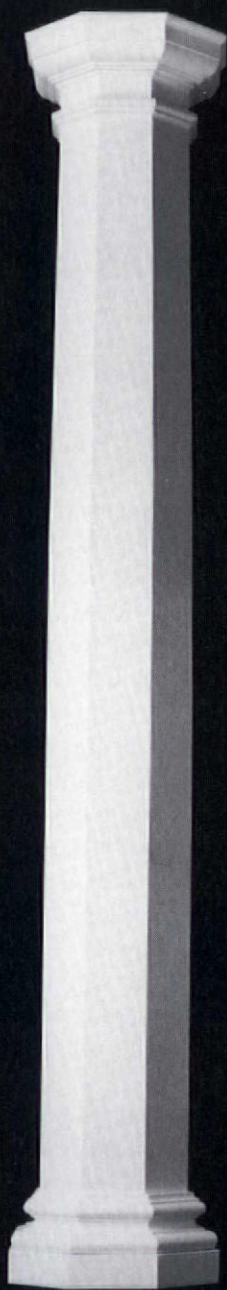
—DAN MILLER
Elgin, Ill.



Use locking seamers to work the parting bead around the meeting rail of the upper sash.

SHARE YOUR SOLUTIONS. We'll pay up to \$100 for hints we publish. Send shortcuts and problem-solving ideas for other old-house owners to: Notebook Editor, Old-House Journal, 2 Main Street, Gloucester, MA 01930.

**CHADSWORTH'S
1.800.COLUMNS™**



WOOD • FIBERGLASS • STONE

*The Column Company Chosen #1
by Professional Builder Brand Use Study*

IDEA BOOK PORTFOLIO • \$10 PLUS \$3 P/H

PRODUCT PORTFOLIO • \$5

FREE FLIER

HISTORIC WILMINGTON, NC
910.763.7600

ATLANTA LONDON
PRIVATE CONSULTATION EUROPEAN HEADQUARTERS

1.800.265.8667



The
KENNEBEC
Company

Designers & Cabinetmakers



PERIOD-INSPIRED CABINERY

At the Kennebec Company, cabinetry and kitchen design have been our specialty for over twenty years. Our period-inspired cabinetry is meticulously crafted using traditional techniques, blending historical sensitivity with contemporary utility.

Send \$10 for portfolio.

THE KENNEBEC COMPANY, ONE FRONT STREET, BATH, MAINE 04530 • TELEPHONE (207) 443-2131

A Collection of Complete Building Plans

**COUNTRY
DESIGNS**



BARNs, SHEDs, GARAGEs, STUDIO COTTAGEs, GARAGE APARTMENTs, VACATION HOUSEs
also other accessory buildings and a folio of period fences.

SEND \$6.00 FOR CATALOG TO: COUNTRY DESIGNS, BOX 774J, ESSEX, CT 06426

Sometimes it's a prominent architectural feature—not stylistic flourishes—that defines a house type.

Hipped and Pyramidal Roofs

BY SHIRLEY MAXWELL AND JAMES C. MASSEY

AS WE READ THROUGH A RECENT STACK OF SUBSCRIBER mail, we found ourselves intrigued by a group of unrelated letters that had come with snapshots. Coincidentally, all were from the Midwest. Yet these houses could have been built almost anywhere in the country. What had instead captured our attention was a common trait among the houses. Built over a span of 70 years and in styles from Italianate to Craftsman, the buildings were strikingly linked by their prominent hipped roofs.

That got us thinking.

First, we pondered the definition of a hipped roof. Essentially, we're talking about four roof planes sloping outward—forming the “hips,” or outside corners. When

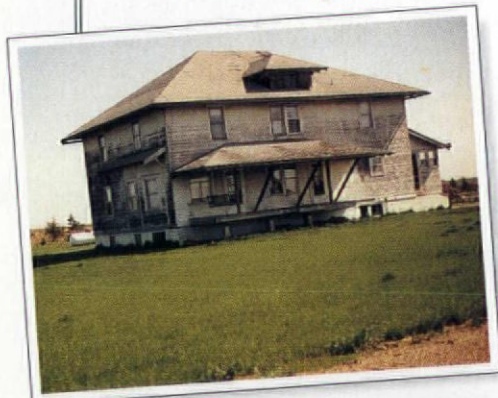
a building is longer than it is deep, a ridge (or deck) is unavoidable at the apex. At top, there may be a balustraded deck or a cupola. On square or nearly square buildings, the four roof slopes may actually meet at the top to form a pyramid. Think of the trigonometric variations on the roofs of octagonal and

ways hold up. True, in building small houses, fewer long timbers would be needed to frame a hipped roof than a gabled roof. And hipped roofs do eliminate the upper portions of walls that would be contained in gable ends. Four very long and heavy pieces of framing, however, must still extend from the roof peak to the wall plate.

Hipped roofs do offer shelter from glaring heat and heavy rains—making this rationale for the form especially applicable to the earliest use of the hipped roof in what is now the United States: the one- or one-and-a-half-storey houses introduced by the French (with West Indian modifications) into the Mississippi Valley and along the Gulf Coast in the late-18th century. Early, steeply pitched “pavilion” (hipped) roofs gave way over time to gentler slopes. Throughout the 18th and 19th centuries and into the 20th, the hipped roof was endemic to Creole, raised, or Gulf cottages. Hipped roofs are occasionally found even on shotgun houses. (We may get an argument on that in New Orleans, where shotguns are gable-fronted. But remember: shotguns were built in Louisville, too, and elsewhere in the South.)

THESE EARLY, FRENCH-DERIVED HOUSES WERE INFORMAL. But what about the early, *formal* use of the hipped roof? Think of 18th-century Georgian and early 19th-century Federal houses. Here again, pitch started out steep in the Georgian era but gradually became lower in the Federal period, as the houses became noticeably wider than they were deep. Deck-on-hip roofs, sometimes with classical balustrades around the decks, are characteristic of this time.

By the middle of the 19th century, houses in the Greek Revival style often had very low hipped roofs with deep friezes at the cornice line. A bit later, many Italianate houses were crowned with low, hipped roofs set above bracketed eaves. After the Civil War and into the early-20th century, houses with Queen Anne or Colonial Revival elements often had a core section with a hipped (or pyramidal) roof. Gable-roofed ells at the front, back, or sides often obscured the shape of the central roof, pro-



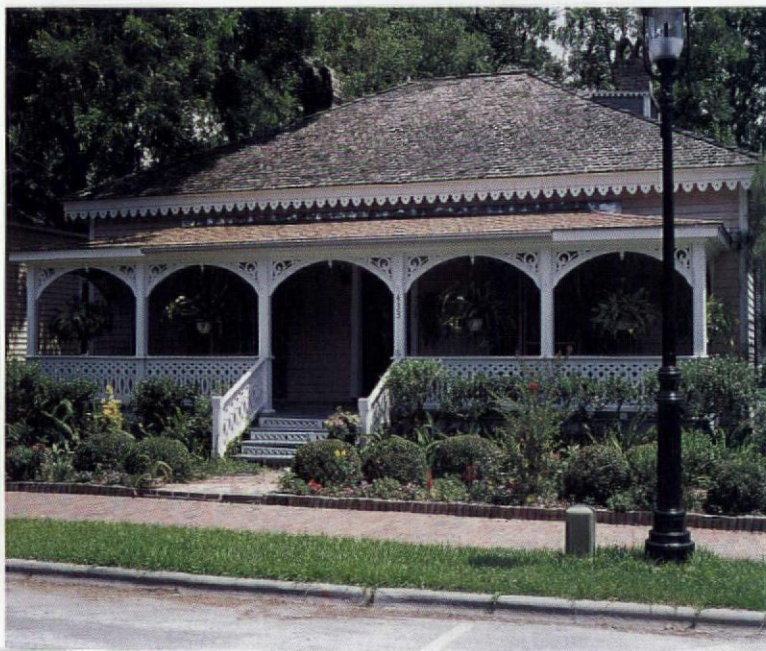
The Oquist family moved their ca. 1920 Nebraska farmhouse 37 miles. Its hipped roof is a prominent and defining feature.

hexagonal buildings, or asymmetrical houses with wings and ells! We imagined a slew of variants: steep hip, low hip, deck-on-hip, hip-on-hip, pyramidal, near-pyramidal with vestigial ridge, hip with dormer, double-hipped, jerk-inhead (a kind of nascent hip).

Second, we wondered when and why the hipped roof became such an enduring feature in American domestic building. The “why” of their popularity seemed at first apparent: Hipped roofs must offer economy and maximize shelter. But the economy argument doesn't al-



A formal hipped roof in the English tradition culminates in a deck in the 1759 example above. The French-derived hipped roof, shown in the Pensacola, Florida, house at right, is an informal type. The Blair house in Williamsburg (below) has a gable roof with clipped ends, or jerkinheads, that form hips.



STEEP HIP ROOF



DECK ON HIP



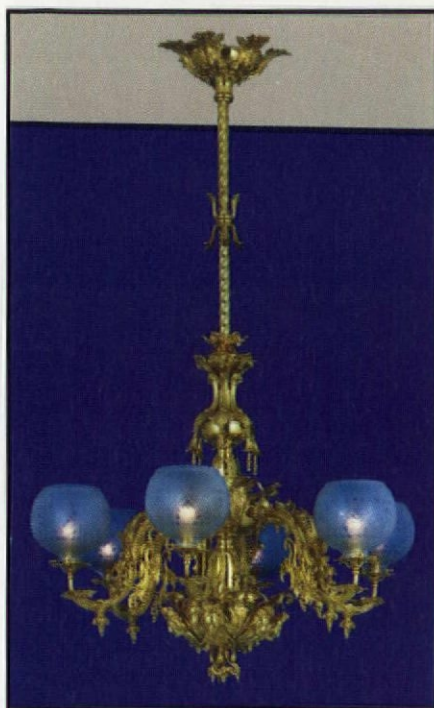
HIP WITH RIDGE



PYRAMIDAL



JERKINHEAD



Top Picture: Rococo Chandelier by Starr, Fellows, New York C: 1857
Center: Deer's Head sconce by Gibson Gas Fixture Works, Phila., PA C: 1890
ONLY TWO OF MANY LOVELY DOCUMENTED REPRODUCTIONS
Bottom: A small sample of our hardware

Two beautiful *four color* catalogs available:
"Heritage Lighting": 16 color pages...\$2.00
 Over 120 beautiful reproduction lights &
"Brass Hardware": 28 color pages....\$2.00
 Over 900 items of brass hardware

OR
 Order both catalogs for only \$3.00

AMERICAN HOME SUPPLY
 P.O. Box 697
 Campbell, CA. 95009
 Phone: 408-246-1962



The Prairie-influenced Foursquare (top) with an unusual pyramidal roof is located in River Forest, Illinois. The two New Jersey examples (above) are typical with their hipped dormers in pyramidal roofs.

ducing a cross-gabled effect. (Then there were the towers, oriel, and bays surrounding the hip-roofed sections, too.) Throughout the period, vernacular Victorian-era houses with indefinite style characteristics continued to wear hipped roofs.

IN THE 20TH CENTURY, MANY house styles, both modern and revival, made use of the hipped roof. Think of the ubiquitous American Foursquare in all its style guises; it is a form defined by its cube shape and hipped or pyramidal roof. The hipped roof

lent itself to the formality of the Colonial Revival, the picturesqueness of the Craftsman style, the horizontality of Prairie School architecture, the villa pretensions of the Mediterranean styles—and even to the contemporary lines of Post-War suburban houses.

Hip, hip, hooray: this type is clearly a roof for the ages.

QUESTIONS ABOUT HOUSE STYLE, or about the original appearance, derivation, or details of your house? Send a letter with a clear, color photo or two: Reading the Old House, OHJ, 2 Main St., Gloucester, MA 01930.

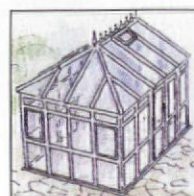
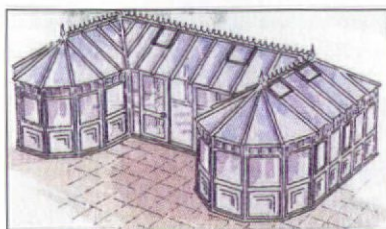


Conservatories

The crowning jewel of a period home or a new home in the traditional design.

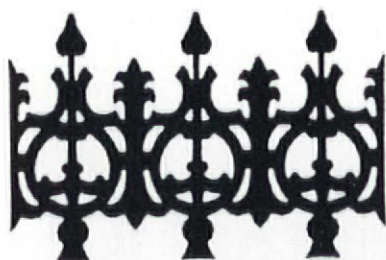
- English designed, made in USA
- Handcrafted cedar framing, or
- Salt-proof aluminum/vinyl framing
- Engineered for severe weather
- Insulated glass and polycarbonate
- Built on-site by trained craftsmen
- Standard and custom styles, colors


**ROYAL
CONSERVATORIES**
 800-892-4225
 Dealer Inquiries Welcome



CAPITAL CRESTING™

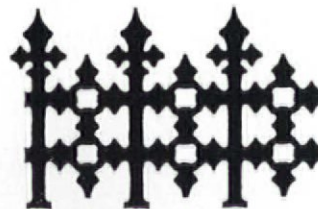
— ABOVE ALL ELSE, AMERICA'S HISTORIC HOMES HAVE CAPITAL CRESTINGS —



151NC

America's leading producer of roof crestings offers a complete line of lightweight, easy to install, economical to ship, unbreakable steel roof crestings and matching finials.

Size may be modified, including length, height and thickness.



133NC



118NC

Choose from our stock designs or we can reproduce any design previously made.

If you wish to design your own, simply furnish us with a drawing and we'll work with you to produce your design — economically.

Ask about our free brochure to help you choose a cresting for your home.

For more information, or to order your crestings, call us toll-free at:

1-800-442-IRON/4766
or Fax 1-717-296-IRON/4766

Patents Pending

CAPITAL CRESTINGS™ ARE MANUFACTURED BY:
ARCHITECTURAL IRON COMPANY, INC. 104 IRONWOOD COURT, MILFORD, PA 18337

Restore Cracked Plaster Walls & Ceilings

Easy One Day Applications

• Vapor Barrier • Cost Effective • 1 Day Application • Remove No Trim

HOW TO USE THE **NU-WAL**® SYSTEM:



1. Cut fiberglass mat 2" longer than height.



2. Apply saturant to area to be covered.



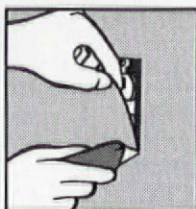
3. Apply fiberglass mat to wet surface.



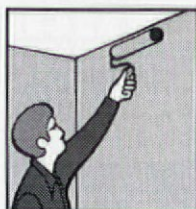
4. Trim excess mat where wall meets ceiling.



5. Trim mat at baseboard and window.



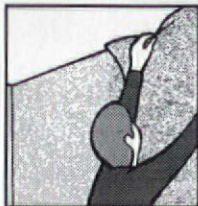
6. Trim mat at outlets, switches, etc.



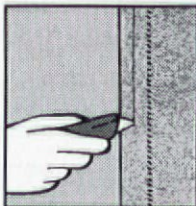
7. Apply second coat of saturant to wet mat.



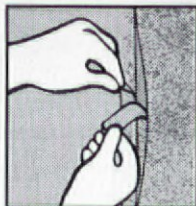
8. Apply 1st coat of saturant to adjacent area.



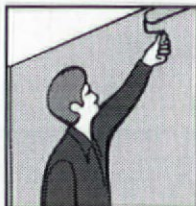
9. Apply mat to 2nd area, overlapping by 1".



10. Cut down center of overlap (both layers).



11. Remove mat strips on both sides of cut.



12. Apply 2nd coat of saturant (include seam)

FREE
INSTRUCTION
VIDEO
AVAILABLE

Make Walls & Ceilings Like New!

SPECIFICATION CHEMICALS, INC.

824 Keeler Street • Boone, IA 50036
800-247-3932

email: sales@spec-chem.com
online: <http://www.spec-chem.com>



CRAFTSMAN HARDWARE CO.

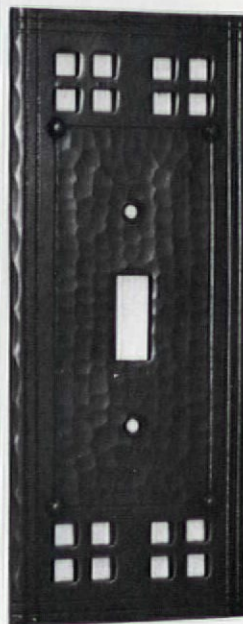
Chris Efker

Hand-hammered copper, brass and bronze hardware with authentic detail and style. Most complete line of Arts and Crafts period cabinet and architectural hardware available including a full line of electrical plates in four styles.

For Product Information And Photos Send \$5.00 To:

Craftsman Hardware
P.O. Box 161
Marceline, MO 64658

Tel: 816-376-2481
Fax: 816-376-4076



Aluminum Lighting & Mailboxes

Great Prices & Selection... Quality Products!

(Same base and pole style on both lamps)

\$198

8'0" Tall



\$298

8'6" Tall

Great selection of quality aluminum lighting and mailboxes! We supply large quantity orders for developers, builders, and property owners.

We ship UPS.

Brandon Industries

1601 Wilmeth Rd.

Dept. DIR

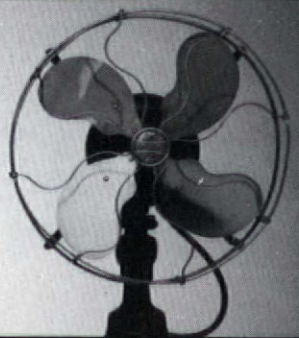
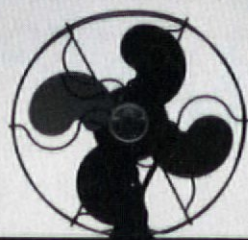
McKinney, TX 75069

(214) 542-3000



Mail boxes

Send \$2 for Color Brochure!



ELECTRIC FANS FROM THE 1890s TO 1990s

SALES • RESTORATIONS • PARTS • RENTALS

THE FAN MAN • 1914 ABRAMS PARKWAY • DALLAS, TX. 75214 • (214) 826-7700

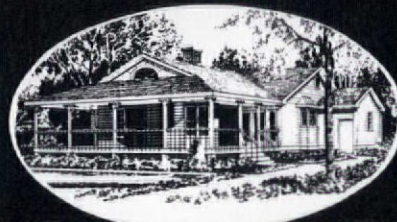
SEND \$2 FOR BROCHURE

THE VICTORIANA COLLECTION



HOMES FROM THE VICTORIAN ERA
ENTIRE COLLECTION - \$12.00

SINGLE STORY HOUSES



BUNGALOWS AND RANCHERS
ENTIRE COLLECTION - \$12.00

To order, send check or money order to:

PRINCETON PLANS PRESS®

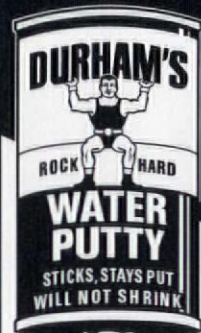
Box 622 Princeton, New Jersey 08540

VISA

1-800-566-9655

Mastercard

WOOD REPAIR



Durham's Rock Hard Water Putty can handle many kinds of repair needs. It can be sawed, chiseled, polished, colored, and molded. It sticks and stays put - will not shrink. It fills cracks, crevices, joints, knots, and nail holes.

It permanently adheres in wood, plaster, and tile. Ideal for use by woodworkers, painters, electricians, and carpenters. Available through hardware, lumber and building material dealers, and paint distributors from coast to coast.

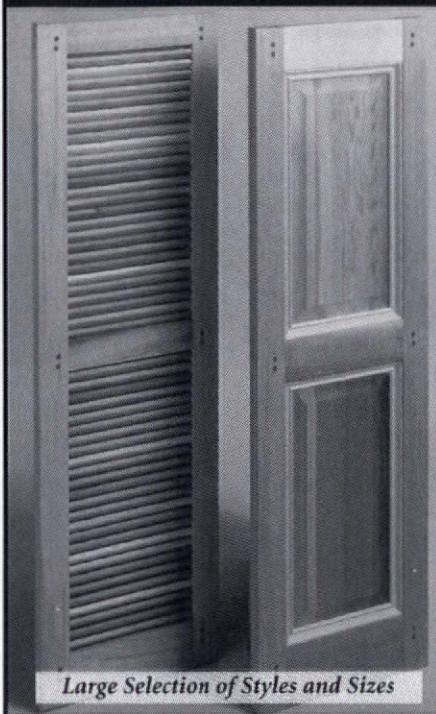


Donald Durham Co.

Box 804-HJ, Des Moines, IA 50304

<http://www.waterputty.com>

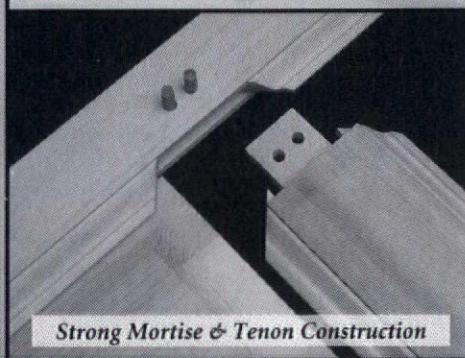
Vixen Hill Cedar Shutters Stand the Test of Time!



Large Selection of Styles and Sizes



Full Shutter Hardware Selection



Strong Mortise & Tenon Construction

Finally! Authentic wood shutters that are beautiful, long-lasting and easy to live with.

The natural qualities of our hand-selected clear cedar keep your Vixen Hill Shutters "healthy" by repelling insects and preventing rot. In addition, our cedar's porous long-grain fiber provides exceptional strength and a superior surface for easy staining or painting.

Over time, Vixen Hill Cedar Shutters are the most cost-effective solution to your shutter needs—combining authentic shutter design with a better-performing, more-durable material.



Vixen Hill

MANUFACTURING COMPANY

Dept. #OHJ7

Main Street, Elverson, PA 19520

[HTTP://WWW.VIXENHILL.COM](http://www.vixenhill.com)

For quote and/or brochure, call or
fax your requirements.

☎ 800-423-2766 • FAX 610-286-2099
OHJ7

DON'T PAINT YOUR RADIATORS

Paint drastically reduces the efficiency of steam & hot water radiators and wood enclosures are poor heat conductors.

Affordable Ace Radiator Enclosures...

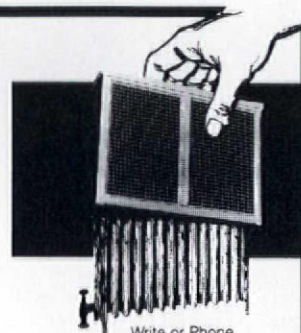
- ◆ Offer durability of steel with baked enamel finish in decorator colors
- ◆ Keep drapes, walls & ceilings clean
- ◆ Project heat out into the room

arsco

Manufacturing Co., Inc.

3564 Blue Rock Road, Cincinnati, Ohio 45247

FREE Estimates
FREE Heat Efficiency Catalog



Write or Phone
1-800-543-7040 Toll-Free
1-513-385-0555 in Ohio (Collect)



Cascading over a fence or
banked against a verandah,
old roses re-create the aura of
a landscape rooted in the past.

PHOTOGRAPH BY WALTER CHANDOLA

Old Roses: A Sampler

BY JO ANN GARDNER

OLD ROSES CREATE THE PERFECT SETTING FOR the old house. These often-ancient flowers are the same plants that could have been blooming in any garden prior to the 1910s. Far from being just living heirlooms, old roses are also "hot" in today's horticultural world. Richly fragrant, they bear the deep rose scent we often seek, but fail to find, in modern roses. Unlike showy hybrids of recent vintage, they are relatively carefree, hardy, and willing to grow in a range of soil and climate conditions.

In the sampling that follows, you'll find old roses to suit every garden. Most bloom only once each year but, by selectively choosing types, a home gardener can keep the roses coming from spring to fall. With their attractive foliage and colorful hips (fruits), the landscaping value of old roses extends well beyond their season of bloom. All make fine informal hedges.

Old Garden Roses

CULTIVATED IN EUROPE and Asia Minor since classical times, old garden roses dominated European and American gardens before 1867, when the first hybrid tea roses were introduced. Fragrant and many-petaled, these tough shrub roses typically bloom in early summer.

ALBA (THE WHITE ROSE OF YORK)—The intensely fragrant pink or white flowers of the Alba and its descendants bloom early to midseason on dense, arching bushes that reach 5' to 8' in height.

CENTIFOLIA (CABBAGE ROSE)—Familiar from old Dutch paintings, the round, tightly packed flowers of the Cabbage Rose may have as many as 100 overlapping petals. Centifolia grows to 3' to 5' on canes with

wrinkled foliage. It usually blooms at midseason.

DAMASK—These flowers, ranging from pale pink to red, have been distilled for their fragrance since ancient times. The Damask's arching, thorny canes reach 5', blooming profusely at midsummer.

GALLICA (FRENCH ROSE)—Also known as the Red Rose of Lancaster, the Gallica is the oldest of old roses and blooms at midseason. One variant, the Apothecary's Rose (*Rosa gallica officinalis*), was brought to America by the Pilgrims for medicinal use. Its rich

fragrance, intensified by drying, floats from deep-pink flowers with golden stamens on a low, spreading bush. 'Rosa Mundi' is a spectacular striped variant.

While old garden roses are available from commercial sources, don't overlook some of the best hunting grounds: overgrown gardens and cemeteries. Always ask before digging up an old rose—or better yet, just a piece of it. Choose cuttings early or late in the season.

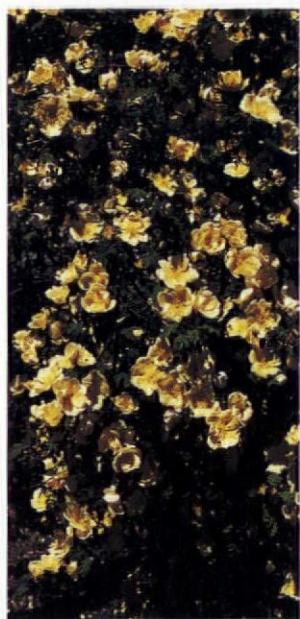
Wild Roses

WILD ROSES ARE THE FOREBears of the thousands of

roses in cultivation today. Often single flowered (with just five to 12 petals), some of the most appealing are these shrubs and climbers.

THE SWEET BRIAR (EGLANTINE ROSE, *R. eglantaria*)—Associated with cottage gardens, the Sweet Briar bears deep pink flowers at midsummer, followed by scarlet to orange hips. Cherished for its apple-scented foliage, the Sweet Briar can reach 10' to 14'.

RUGOSA—Introduced from Japan in the 1840s, Rugosas are resistant to salt spray and stand up to winds. They often grow to 6' in coastal areas, blooming from



Old roses include climbers like Father Hugo's Rose (left) and 'Dr. W. Van Fleet' (bottom, right), and the intensely fragrant Apothecary's Rose (top).



**The Finest in Victorian,
Turn-of-Century and Arts &
Crafts Lighting**

32-page catalog
\$3.00 refundable with purchase

ROY ELECTRIC CO., INC.
1054 Coney Island Ave.
Brooklyn, New York 11230
(718) 434-7002
FAX (718) 421-4678

VISIT OUR SHOWROOMS
New location: 2nd Showroom
22 Elm Street
Westfield NJ 07090
(908) 317-4665

midsummer to fall. Tough and beautiful at the same time, Rugosas are identified by their dark green foliage, purplish or white flowers, bright hips, and rose-clove perfume.

'BLANC DOUBLE DE CORBET'—This densely petaled rose (1892) is one of the finest hardy white roses. It blooms from mid-season to frost and reaches 4' to 6'.

Among the hundreds of wild roses and their variants, several stand out because of their yellow flowers—unusual in the world of old roses. The bright, fragrant, densely petaled Persian Yellow (*R. foetida persiana*, 1837) grows to 5' and blooms at mid-season. The spring-blooming Father Hugo's Rose (*R. hugonis*, 1899) reaches 8' and produces yellow blossoms, shown to great effect when the plant is grown as a climbing rose.

Early Modern Climbers

MODERN CLIMBING ROSES ARE technically hybrids, but since they have been grown in American gardens for most of this century, they are considered "old" by garden specialists. They include the following varieties, which can be



No cabbage ever smelled as sweet as Centifolia, the Cabbage Rose.

trained to grow up a trellis, arbor, or building wall.

'DR. W. VAN FLEET'—Bred by an unassuming Department of Agriculture employee in 1910, this climber quickly became a rose classic. Growing on canes to 20', its fragrant, densely petaled flowers are pink, fading to white. A descendant, 'New Dawn' (1930), bears clusters of pink, tea-scented flowers all summer.

'PAUL'S SCARLET CLIMBER'—Spectacular when pegged to a fence, this climber dating to 1916 can reach 15' and blooms at mid-season, pouring forth large, full, scarlet flowers in clusters.

JO ANN GARDNER is the author of *The Heirloom Garden* (Garden Way, 1992). She tends her flower gardens in rural Orangedale, Nova Scotia.

Growing Old Roses

Old roses will survive neglect, but they thrive on care. All types need a site with good air circulation, well-drained soil, and at least six hours of direct sunlight each day. Plant old roses 3' to 5' apart, or with 18" to 24" spacing for a hedge. Climbers should be planted 12" to 15" away from the surface on which they will climb, and 7' apart. Because buds form on old stems, prune after blooming.

SUPPLIERS

ANTIQUE ROSE EMPORIUM
Rt. 5, Box 143
Brenham, TX 77833
(800) 441-0002

ROYALL RIVER ROSES
70 New Gloucester Rd.
N. Yarmouth, ME 04097
(207) 829-5830

THE ROSERAIE AT BAYFIELDS
P.O. Box R (OH)
Waldoboro, ME 04572
(207) 832-6330

HEIRLOOM OLD GARDEN ROSES
24062 NE Riverside Dr.
St. Paul, OR 97137
(503) 538-1576

Timeless & Enduring



FACTORY DIRECT VICTORIAN FURNITURE

Shop with us at Heirloom Reproductions for the finest, most authentic, Victorian furnishings. Choose from a vast selection of Victorian pieces, **all hand-carved in solid mahogany!** Our 150-page catalog offers everything needed to make your home a Victorian treasure—sofas, chairs, marble-top tables, bedrooms, dining rooms, hall trees, curios, lamps, wardrobes, clocks and entertainment centers *plus* hundreds of fabrics and custom finishes!

For more information, call toll-free: **1-800-288-1513**

MasterCard/VISA Accepted

Alabama Residents add 4% sales tax.

OR SEND \$3 FOR CATALOG TO:

HEIRLOOM REPRODUCTIONS, 1834 West 5th Street, Dept. OHJ, Montgomery, AL 36106



- Cast bronze or aluminum
- All sizes from medallion to road signs
- Graphics and logos
- Discounts to Historical Societies
- Time Capsules
- Custom wording from \$78
- National Register plaques from \$35

Rush service available • Satisfaction Guaranteed

Visit our Internet site at
<http://buttons.webrover.com/erielc/>



ERIE LANDMARK COMPANY
4449 Brookfield Corporate Drive
Chantilly, VA 20151-1681

FREE BROCHURE
Call: 800-874-7848
Fax: 703-818-2157

PHENOSEAL®

Innovative solutions to your restoration needs.



PHENOSEAL provides restorers with Professionally Tested, Naturally Trusted products that cover a wide range of uses and are safe for both user and environment.

All-purpose PHENOSEAL Vinyl Adhesive Caulk seals and bonds all common building materials. Use it to caulk a bath, glue a chair, or seal a leaky gutter. See why we call it The One Caulk for Most Any Job.

Clear PHENOSEAL Liquid Waterproofing penetrates porous building surfaces to invisibly seal against deterioration due to weather and water. Helps keep wood, masonry, and concrete surfaces looking clean and new.

All PHENOSEAL products are paintable, mildew resistant, and water based for easy cleanup. Sold at leading paint, hardware, and building supply outlets with our money-back satisfaction guarantee.



P.O. BOX 428 • FRANKLIN, MA 02038
508/528-2200



With wrought iron railings at ground level and cast iron balustrades on the upper storeys, residences like this urban row house became showcases of the ironworker's art in the late 19th century.

The Art of Ironwork

Historic Use of Railings, Fences, and Gates—with Techniques for Care

by Henry J. Magaziner, F.A.I.A.

IN RURAL EARLY AMERICA, THE PRIMARY purpose of a fence was to keep livestock—cows, sheep, and pigs—away from the house. As the country urbanized, the fence's function switched to containing pets (predominantly dogs) and defining property lines. In a growing nation that was rapidly industrializing, the material inevitably switched, too. The traditional wooden picket fence soon lost out to ferrous metals—wrought iron, cast iron, and clever combinations of both.

While ironwork of the Colonial and Federal eras is noteworthy because of its hand-crafted beauty and relative rarity, the golden age of American architectural ironwork was actually later, running roughly from 1840 to 1930. If your old house dates from this "century of iron," and you're blessed with an original iron fence (or the evidence of a previous fence), here's what you should know to understand what you have and how to keep it for another century.

TODAY'S FENCES ARE LITTLE MORE THAN utilitarian barriers, but in Victorian times they were considered important features in a site's overall design. According to the prominent Philadelphia architect Samuel Sloan (1815–1884):

None of the appendages to a country seat better repays an expenditure of taste and money than the fencing. Whatever the size of the grounds attached, the enclosure is an important feature in the landscape . . . [The enclosure] may be of stone, brick, iron or wood. The two latter admitting a greater variety of pattern, are more suitable than a wall of either stone or brick.

Nevertheless, of course, Sloan's subject was houses of the well-to-do. In the latter half of the 19th century, nothing finished even a modest town or city home better than a pair of elegant iron railings leading to the front

door. The evolution of such railings, and kindred fences and gates, owed as much to technology as to changes in style.

Wrought Iron

IN URBAN HOMES OF THE COLONIAL AND Federal periods the exquisite iron railings on stone front steps expressed the wealth and good taste of the owners. These railings were all of hand-wrought iron.

Metallurgically, wrought iron is nearly pure iron—that is, it contains less than 1% carbon. It is soft, compared to steel or cast iron, but tough and malleable with a distinct "grain" or layered structure (the result of residual slag). True wrought iron is rarely produced today. The modern substitute is mild steel, an alloy containing up to 2% carbon, which is strong and work-



Above: After 1850, many capable architects also designed fences. This cast iron rail by Frank Furness shows his highly personal style. Below: This 20th-century wrought iron gate swings in Charleston, South Carolina.





The spear motif of this cast iron fence symbolizes its defensive purpose. But symbolism could not stop the corrosion that attacks all outdoor iron not properly maintained with paint.

reservoirs, causing further rusting.

Before there can be any welding, or other restoration, all rust and paint have to be removed from the ironwork. The first step is to chip away any loose paint or rust. Then, dry grit blasting is recommended—unless the member is excessively thin or blasting is prohibited by local regulations. Blasting pressure should be no higher than 80 pounds per square inch, with particles 70–100 mesh in size (see “Gentle Blasting,” July/Aug. 1995).

If blasting is prohibited or impractical, the iron must be wire brushed by hand. Whatever the method, it is important to have the iron cleaned down to bright metal before repairs are made. No type of wet blasting is appropriate; it rusts the iron immediately!

Maintaining Iron

IN RESTORING IRONWORK OF ANY KIND, THE IMPORTANT FIRST STEP IS TO assess the conditions—that is, make a foot-by-foot survey of where deterioration is located, and what kinds and levels of repair or maintenance are indicated. Where the project is large or necessitates contractors, such as welders or blasting firms, it may be cost-effective to hire a preservation architect or conservator to prepare contract documents. Even before this, check with the local building department, the environmental protection agency, and the historical or landmark commission to make sure that the proposed work violates no regulations.

Do some homework on the contractors or craftspeople, too. Examine their previous work to see if their skills, methods, and equipment are appropriate for your project. Major repairs that involve blasting, cutting, fitting, tapping, and finishing of iron are best performed by experienced metalworkers.

Where there's iron, expect to find rust—sometimes lots of rust. Rusting, technically oxidation of the iron, can be due to the presence of water, salt air, sea water, acids, acid rain, and air pollutants. Where the iron has crevices that trap and hold liquids, the rust may be especially bad. Since rusted surfaces are porous, they act as



Unlike oxidation on non-ferrous metals, which provides a protective coating, rust will continue to eat away at iron until the metal is consumed. Most insidious are scale patches and pockets, such as this deterioration on the famous “cornstalk fence,” that trap water.

Rustproofing

ALL EXTERIOR IRONWORK SHOULD BE painted immediately after repairs have been made or replacements added, otherwise it will rust. Whatever paint system is used, the surfaces must be properly prepared. Poorly prepared surfaces will not retain even the best paint. Make sure that the ironwork is clean, free of rust, scale, oil, or grease. Then, never paint on a wet or damp surface. Along the same lines, never paint during fog, mist, or rain, or when the relative humidity is above 80%, or if the temperature is expected to fall below 50 degrees F. within 24 hours. Preferably, don't paint ironwork in direct sunlight either (it dries too quickly for optimum bonding).

A quality metal primer is a critical part of paint protection. Traditionally, red lead—tough, elastic, and impervious to water—was the primer for iron. In our time, however, red lead and zinc chromate (another effective primer) are prohibited, except for some commercial and industrial uses, because they contain heavy metals. Alkyd or acrylic primers have

largely replaced the traditional primers. They dry faster but are not as effective for as long. Alkyd rust-inhibitive primers contain pigments such as iron oxide, zinc oxide, and zinc phosphate.

These primers are suitable for replacement parts and for cleaned, previously painted surfaces. Two or more coats of primer should be used, followed by finish coats of alkyd enamel. Zinc-rich primers containing zinc dust can be used for longer protection, but the surfaces must be in a "bare white" condition. This is usually achieved by sand blasting. Water-based latex house paints will cause immediate rust and should never be used as primers on bare iron.

Cover primer coats with even, not too thick, finish coats that can range from glossy to matte. The best available paint system for cast iron is a two-part epoxy primer, followed by a polyurethane finish coat. However, this paint system is expensive and difficult for homeowners to apply. Another choice is an industrial maintenance coating (for example, Sherwin-Williams DTM Acrylic Primer/Finish).

Hand brushing is still the most effective method for painting iron fences and railings. The action of bristles works the paint onto flat surfaces and corners for a good bond with the metal—especially important for primer coats. Paint rollers and airless sprayers can be used to apply topcoat paint on broad areas if they are followed up with a brush.

If part of the unit is to be set in concrete, then that part of the unit should be treated with a bituminous coating, allowed to cure. For setting in masonry, the buried ends are best rust-proofed, since the molten lead will burn off any paint.

While most ironwork is painted black, that color tends to mask the details and shadows that help define depth. Consider also historic greens (especially for naturalistic fences), stone colors, and picking out occasional realistic ornament, such as fruits or flower petals. Painting ironwork sensitively can enhance it artistically.



able, but not quite as weather-resistant. Wrought iron is easily worked, making it an ideal metal for early blacksmiths who could bend, forge, or draw it into an array of sinewy but expressive shapes.

Before 1840 and the development of large-scale iron production, wrought iron rails, fences, and gates remained the work of local artisans and each example was unique. Ornamental ironwork was not created in a vacuum, though. After the Federal period, when the country entered into the age of architectural symbolism, the railings and fences, like the buildings, often carried Greco-Roman patterns. True wrought iron continued to be produced through the 19th and early 20th centuries, and was brought to new heights of craftsmanship by designers and artists such as Samuel Yellin of Philadelphia.

Cast Iron

THE DISCOVERY AND EXPLOITATION OF HARD coal in eastern Pennsylvania in the 1840s, coupled with new sources of iron, made cast iron available on an unprecedented scale. Cast iron is an alloy high in carbon (up to 3.7%) as well as other minerals and elements. It



This dramatic Philadelphia fence (top) shows the rich design possibilities of cast iron: a naturalistic pattern of free-flowing grape vines in a rinceau motif is in artful contrast to the very geometric Greek key base below. Cast iron was easy to ship, too. The Banning House "cornstalk fence" (above), one of three known examples of this pattern, was moved from New Orleans to Wilmington, California, in 1910.



In this typical composite wire fence with cast-ons (above), the owner perhaps picked the "Gothic Rose" gate design to harmonize with his Carpenter Gothic porch. The hairpin fence (right) became very popular in the late 19th century. Here the gate posts and rosette appear to be the only castings.



is much harder and more brittle than wrought iron, so it is poorly suited to shaping with hammers or rollers. However, cast iron pours readily into molds and stands up relatively well to weather—ideal for ornamental work.

Because it could be molded, cast iron made possible the mass production of objects—first stoves, then machine parts and fencing—at a central factory, spawning a pivotal industry of the Industrial Revolution. Starting in the 1840s, Philadelphia's Robert Wood foundry (and its successor, Wood & Perot) became the national leader in the field of ornamental iron. As Philadelphia was a major port, their castings were easily shipped to distant points. Thanks to a local sales office, Wood, Miltenberger & Co., much of New Orleans' celebrated ironwork came from Wood & Perot. Their 1859 advertisement touted "200 varieties of Gallery Railings" and "50 (patterns) for verandahs."

Many fence and railing castings were basically imitations of ornate stone balusters. Others were tracery. Regardless of the design theme, cast iron fences and railings tended to be somewhat massive, using repetitive design elements. Cast iron was not as thin and muscular as wrought iron, but it was much cheaper. Cast iron fencing and some railings came in regular lengths. They were just bolted or screwed together.

Besides lasting longer than wood, cast iron offered endless design permutations. Patterns were frequently mixed, and the same cast iron elements were often combined in different ways. While some castings were "signed" by the foundries, many were not. Furthermore, it means little if the pieces were pictured in the catalog of a firm. Competing foundries were quick to pirate each others designs and copied them freely.

Cast fences and railings lent themselves readily to reflecting the architectural styles of the buildings they surrounded. For example, it was now possible for the designer of a Gothic Revival house to enclose its front lawn with a cast iron rendition of Gothic tracery. The railing on the house's front entrance steps could also feature Gothic themes.

Picturesque fence designs were developed for needs and whimsies. For example, Philadelphia's Wood and Perot foundry even produced a cast iron cornstalk fence, commissioned by a New Orleans

Cast and Wrought Repairs

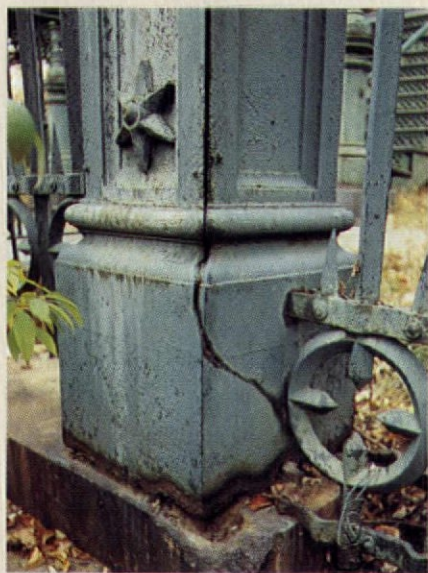
AS WITH PAINTING, REPAIRS TO CAST iron should be prefaced with your detailed condition assessment of the piece, preferably after paint and rust have been removed. Select repair contractors based on samples of their work.

Once an iron casting is clean, examination may reveal imperfections—some even dating back to its original manufacture. Discoveries may include air holes, cracks, and cinders, or cold shunts—faults in the metal caused by interrupted pouring or “freezing” of the surface during casting. Some old castings may be excessively brittle.

Others may have impact damage, structural failure, broken joints, damaged connections, missing elements, or loss of anchorage in masonry. Cast iron regularly suffers from ill-advised repairs, too. Concrete poured in the central voids of railings and newel posts only attracts water, which promotes rust and, when it expands as ice, blows the castings apart.

Small, non-structural cracks and

While able to withstand tremendous compression, cast iron is brittle and vulnerable to cracking caused by impact or internal expansion. Since this post is still structurally intact, it may need only caulking to prevent water intrusion and further damage.



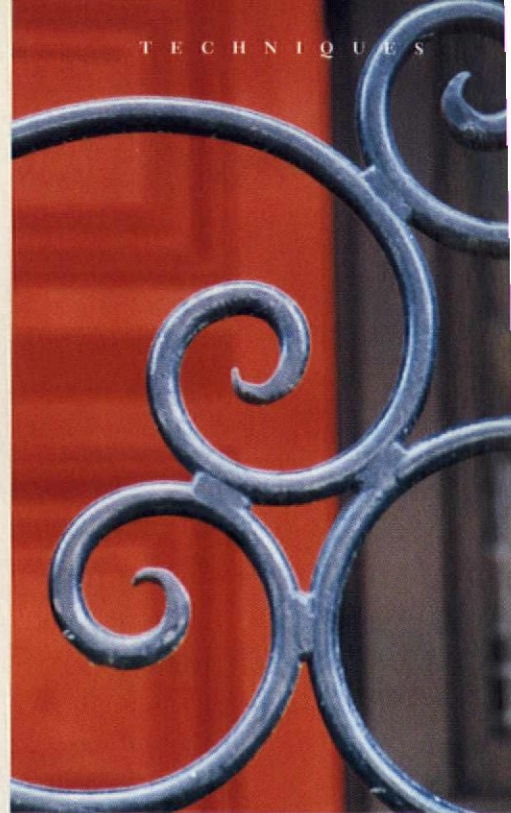
holes can be filled with epoxy steel. Major breaks, however, are not as easy to mend. While cast iron is difficult to weld, it can be mended successfully if the welder is skilled and the welding rod is pure nickel. Of course, fencing is typically not used for load-bearing purposes, but it is important to note here that welding should never be used to repair structural cast iron members. Defective structural members must be replaced. So should any cast iron structural members found to be less than $\frac{3}{8}$ " thick.

If parts of a casting are missing, it is possible to order new replacement iron castings from foundries who specialize in this work. Ideally, a new pattern should be produced for the mold, one that is slightly oversize. This is because once the pattern is removed from the sand mold and molten iron is poured into the void, the metal shrinks approximately $\frac{1}{8}$ " per foot as it cools. Where an exact match in size is not critical, it is possible for the foundry to use an existing piece of ironwork as the pattern. Remember, though, that the eventual casting will be slightly smaller than the original.

Replacement castings can also be made with aluminum, which was not available during the cast iron period. Aluminum will not rust, but it must be isolated from the rest of the ironwork or galvanic corrosion is likely to occur (see page 39). For reassembling old cast iron elements or adding new ones, use only stainless steel pins or bolts.

Wrought Iron Repairs

TO ASSEMBLE THE COMPONENTS OF A wrought iron object, the iron craftsman draws on various mechanical options. If he rivets, his rivet heads are not countersunk but remain exposed, becoming part of the design. If he collars, he combines the parts with strips of iron, bent while hot around the abutting members. When the iron



These oxy-acetylene welds (top) are unmistakably modern. The adjacent metal members are held together by the obvious addition of flux and rod metal between them. Contrast this with hand-forged railings that display true wrought iron welding (above). Here the adjacent wrought iron members were actually beaten into each other while they were yellow hot.

collar strips cool, they shrink and clutch the members in a very tight grip. If the craftsman produces a true hand-hammered weld, he beats together two pieces of metal that have been softened by gradual heating. Such a weld swells slightly at the point of juncture and looks very different from today's welds produced with oxy-acetylene torches or electric arcs. Where metal is missing, the craftsman will typically fashion new parts from mild steel.

SUPPLIERS

STEWART IRON WORKS CO.
P.O. Box 2612
Covington, KY 41012
(606) 431-1985
Cast and wrought iron
fences from standard or
custom designs.

ARCHITECTURAL IRON
P.O. Box 126
Milford, PA 18337
(800) 442-4766
Cast and wrought ironwork.

**HISTORICAL ARTS
& CASTING**
5580 W. Bagley Park Rd.
West Jordan, UT 84088
(800) 225-1414
Manufacturers and restorers
of cast iron.

**SAMUEL YELLIN
METALWORKERS**
721 Moore Ave.
Bryn Mawr, PA 19010
(610) 527-2334
Custom wrought ironwork.

In keeping with the Greek Revival bank building (right), William Strickland (1788–1854), designed this cast iron fence using the Greek anthemion or honeysuckle motif replete with small spears. As roof cresting (bottom), cast iron fencing was popular on both Gothic Revival and Second Empire-style buildings because it softened the line between building and sky.

physician to keep his wife “from feeling homesick for her native Iowa.” The same fence was later used at the historic Short-Favrot House in the city’s Garden District. As commuter railroads gave rise to early suburbs, better-fixed families seized the opportunity to escape industrial cities and move “back to nature”—hence the fashion for naturalistic fencing.

Wire and Hairpin Fences

BY THE MID-19TH CENTURY, DRAWN WIRE fences and gates became available. In this process, the precursor to modern chain-link fence manufacture, molten wrought iron was drawn from dies to produce wires $\frac{1}{8}$ " to $\frac{1}{2}$ " in diameter. Lengths of wire were then cold-bent around jigs to form diamond and loop patterns, or crimped for decorative effects. The leading manufacturer in this



field was John Wickersham’s New York Railing Company. Beginning in the 1850s, Wickersham combined both wrought iron and cast iron technologies in “composite” fences and railings. The wires were fixed in place by casting solid rosettes, called “cast-ons,” at the points of intersection without the aid of rivets. Wickersham and his competitors also cast the surmounting pickets directly upon the railings (see “Early Wire Fences,” March/April 1992).

Late in the 19th century tastes moved away from elaborate castings and drawn wire fences. Hairpin wrought iron fences became very popular. Thinner and simpler in line than cast iron, they would often be combined with cast gate posts and features. Unfortunately, many fine decorative fences were lost to scrap metal drives during the two world wars.

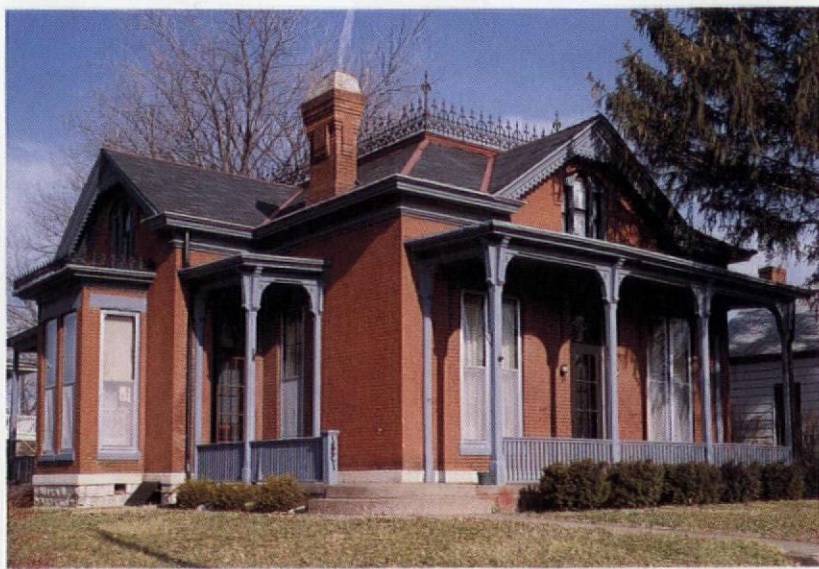
Appropriate Iron

TODAY’S OLD-HOUSE OWNERS, PERHAPS HEEDING the advice of tastemakers like Samuel Sloan, often wonder which style or kind of fence or railing is appropriate for their property. North America is rich with a variety of architectural styles. While there are numerous exceptions, houses connected with these styles or eras generally had wooden fences: colonial, Federal, gingerbread Victorian, Stick, Shingle, and Colonial Revival.

On the other hand, iron fences and railings often appear with houses showing the influence of these styles: Gothic Revival, Italianate, Second Empire, Richardsonian Romanesque, Arts & Crafts, Beaux Arts Classicism, Georgian Revival, Jacobean Revival, and Spanish Provincial. Town houses almost always had iron step railings at their front doors. Some Southern ante-bellum houses had wooden fences on their grounds and iron railings on their porticoes and balconies.

Whatever their nature, railings, fences, and gates that date from the glory days of iron are worth the effort to retain. Besides being costly—if not nearly impossible—to reproduce, they are examples of our building heritage as much as the houses they enhance.

HENRY J. MAGAZINER is a historical architect based in Philadelphia, Pennsylvania. His book *The Golden Age of Ironwork* is to be published by Skipjack Press.



Footings and Fittings

UNLIKE THEIR WOODEN COUSINS, FREE-standing iron fence posts must be installed in concrete. Earth alone cannot support them. The concrete footing must also be deep enough to extend below the frost line (at least 3' in the snow belt) in order to keep the fence from heaving in the winter.

Iron railings set in exterior masonry (marble, granite, or brownstone, for example) should be set in oversized holes. Traditionally, molten lead is then poured around the sunken stanchions of the railing, embedding them. The craftsman handling molten lead must be sure that the bedding holes are absolutely dry. Otherwise the lead will spatter and may injure the pourer. When the lead solidifies, it is sufficiently soft to accommodate the expansion and contraction of the iron due to temperature change.

Cast iron newel posts, most commonly seen on urban front step railings, were often designed to be anchored with a single threaded rod. The rod runs up through the middle of the newel from a mount in the masonry landing, and the newel can often be restabilized by tightening a nut or finial at the top. First, wire brush the threads, then soak them liberally with penetrating oil (WD-40 or similar product). Afterwards, tighten the hardware cautiously to avoid stripping the threads. Heat from a torch will often loosen up a frozen nut.

Mating Metals

NEVER BED TWO PIECES OF EXTERIOR ironwork—be they wrought or cast iron—directly upon each other. Once they are so joined, there is no way to paint and protect the two touching iron surfaces. Eventually water will find its way between them, rusting the bottom of the top member and the top of the bottom member—both unprotected.




Top: Besides the obvious impact damage, this iron fence leans because the concrete holding its embedded portions did not extend below the frost line. **Left:** Whoever mounted this railing did not rustproof the embedded portion of the iron. Eventually water got in, which expanded the buried iron as it rusted, fracturing the stone. **Right:** The ironworker who produced this railing decades ago bedded two pieces of iron directly on each other. Again, water got between them, the iron rusted, expanded, and the two pieces pried themselves loose.

Rusting iron expands, so the joint will open. In the winter, more water will enter and, if it freezes, expand further. Also, the rust will wick in more water, accelerating the rusting.

Outdoors, where water is ever-present, two dissimilar metals must be insulated from each other or galvanic corrosion will take place. This happens when the dissimilar metals are in intimate contact while an electrolyte—typically water containing salt or hydrogen ions—is present. The corrosion varies, depending on the relative sizes of the metals and their position on the electrochemical series. The more active metal will be attacked and corroded. Thus alu-

minum will be attacked when it is in contact with a less active (noble) metal, such as cast iron. Mild steel, which is close to iron on the galvanic scale, is an appropriate material for patching cast iron.

To prevent electrolytic action in cases where aluminum parts are introduced into an iron fence or railing, insulate the different metals from each other with good spar varnish. Apply several coats to the mating surfaces, then be sure that the varnish does not become damaged while assembling the parts. Cast fiberglass sidesteps the issues of corrosion altogether, and may be practical for reproducing small, decorative elements.



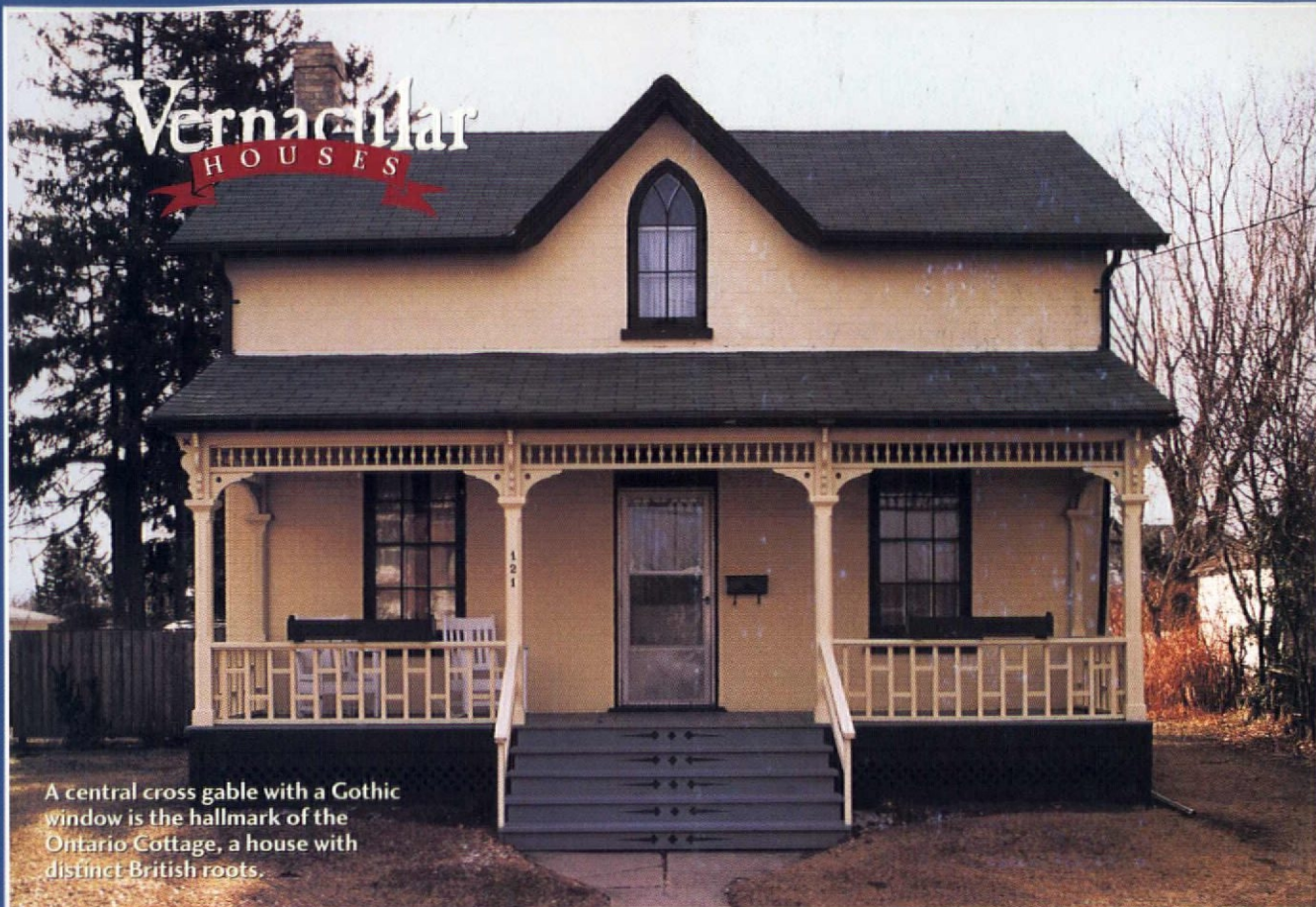
TECHNIQUES

THE UNDERACHIEVING CANTILEVER

The restoration of this Prairie School landmark's roof offers an education in progressive early-1900s construction and late-1900s restoration.

BY RICHARD L. KRONICK

Vernacular HOUSES

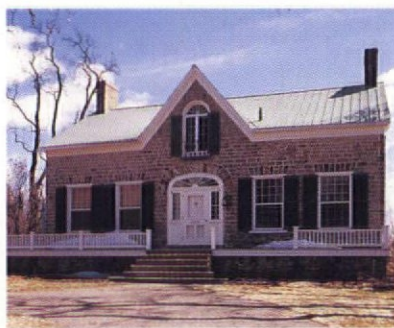


A central cross gable with a Gothic window is the hallmark of the Ontario Cottage, a house with distinct British roots.

ONTARIO COTTAGES

AFTER THE NAPOLEONIC WARS, British officers began settling Ontario's towns, bringing with them a housing tradition that reflected their English roots. The result was the Ontario Cottage, which first appeared in the 1820s and 1830s. The building is probably a regional variant of the Regency cottage—the low-slung, informal house style with one or more porches that the British brought back from the tropics.

In its purest form, the Ontario Cottage is an oblong box, $1\frac{1}{2}$ storeys high, three bays across, with a centered door. This basic plan was often enhanced with a cross gable, typically sheltering a Gothic Revival window, and a full-width verandah. Constructed of local wood, brick, or stone, the Ontario Cottage provided compact, easily built housing



This stone variant from 1824 boasts five bays and a front door in the Adam style, called "Loyalist" in Canada.

for a cold, relatively poor province.

The cottage's signature peak began appearing in the 1830s and 1840s. Practical yet political, the gable allowed Ontarians to light and ventilate their bedrooms, as well as express their strong connection with the

mother country, where the Gothic Revival style was popular. And the gable's carved bargeboard afforded housebuilders a precious chance to decorate with cusps and trefoils.

The Ontario Cottage never caught on in the United States, which was moving away from English architectural influence. While the young nation was infatuated with Greek Revival pillars and pediments, Upper Canada embraced the Regency and Gothic Revival styles that met in the Ontario Cottage. The style, which continues to be built today, has been a favorite ever since.

—KATHERINE ASHENBURG
Toronto, Ontario

Katherine Ashenburg is the author of Going to Town: Architectural Walking Tours in Southern Ontario, 1996, Macfarlane Walter & Ross.

OLD HOUSE
JOURNAL

The Antique Hardware & Home Store

Everything You Need To Fix-up Your Home!



Medicine Cabinets • Umbrella Stands • Tables • Rocking Horses • Coffee Grinders • Door Hinges

Tiffany Lamps • Stoves • Toys • Bathroom

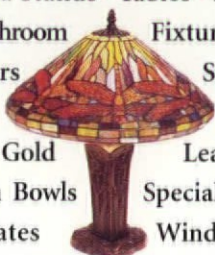
Gingerbread Trim • Refrigerators

Stops • Weathervanes • Chair Seats

Chair Seats • Door Accents • Tables • Gold

Outdoor Decor • Runners • Porcelain Bowls

Shower Conversions • Switch Plates



Fixtures • Wallpaper • Dishware • Mailboxes

Sinks • Tin Ceilings • Toilets • Door

Mechanical Banks • Brass Bar Rails

Leafing • Door Hinges • Area Rugs

Specialty Shades • Trunk Handles • Stoves

Window Hardware • Heat Registers & Grills • Mailboxes



Canning Products • Stoves • Plumbing Fittings • Door Hardware • Curtain Tiebacks

Soap Holders

Hand Held Showers • Bathroom Shelves • Stoves • Sinks

Medicine

Cabinets • Umbrella Stands • Rocking Horses • Tin

Stoves • Toys

Wallpaper • Bathroom Fixtures • Mailboxes • Chair

Cabinets

Toilets • Door Stops • Brass Bar Rails • Gold Leafing

Runners

Wrought Iron Products

Lights • Outdoor

Specialty

Shades • Toys • Shower

Trunk Handles • Canning Products • Stoves

Shutter Hardware • Heat Registers & Grills • Switch

Plates • Wrought Iron Products • Door Stops

Plumbing Fittings • Curtain Tiebacks • Canning

Products • Shutter Hardware • Hand Held Showers

Bar Rails • Specialty Shades • Bathroom Shelves • High

Tank Toilets • Tables

Medicine Cabinets • Toys

Soap Holders

Thermometers • Tiffany Lamps • Stoves • Wallpaper

Porcelain Bowls

Door

Hinges • Tin Ceilings • Toilets • Weathervanes

Door Stops • Stoves

Gold

Leafing • Shower Conversions • Window Hardware

Gingerbread Trim

Plumbing Fittings • Canning Products • Shutter Hardware • Tables • Area

Fixtures • Stoves

Trunk Handles • Toys

Tiffany Lamps • Stoves • Gingerbread Trim • Bathroom

Mechanical Banks • Door Stops • Brass Bar

Sinks • Refrigerators • Tin Ceilings • Toilets • Runners

Gold Leafing • Door Hinges • Toys

Rails • Chair Seats • Door Accents • Tables

Medicine Cabinets • Weathervanes

Outdoor Decor • Switch Plates

Fixtures • Coffee Grinders • Area Rugs

Umbrella Stands • Bathroom

Dishware • Stoves • Heat Registers & Grates • Toys

Tiffany Lamps • Stoves • Wallpaper



I Guarantee The Lowest Prices Anywhere.

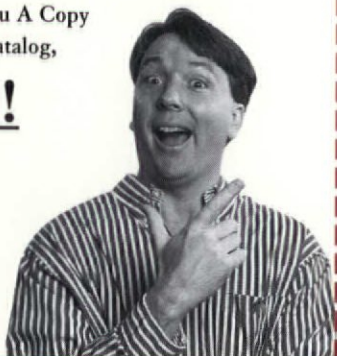
Send In This Coupon, Or Give Me A Call

At 1-800-422-9982, Ext. 3005

And I'll Send You A Copy

Of Our Latest Catalog,

FREE!



Yes, Send Me Your Catalog!

Name _____

Address _____

City _____

State _____

Zip _____

• Plumbing • Bathroom Fixtures
• Locks • Tools • Door Hardware
• Cast Iron Hardware • Window Trim
• Lighting • Tiffany Lamps

• Specialty Hardware
• Embossed Wallpaper
• Stoves • Coffee Grills • Dishware
• Cast Iron Mechanical Banks

Send to: The Antique Hardware Store
1C Mathews Court, Hilton Head Island, SC 29926

Or Call 1-800-422-9982 ext. 3005

RE M UDD L I N G

OPINION



Blindsided

SOMEONE ASSOCIATED WITH THIS 19TH CENTURY STONE HOUSE IN EASTERN PENNSYLVANIA CLEARLY HAS A yen for additions. It is possible to successfully add on to an old house, if you respect the existing structure. Many of the changes made here, however, seem to belong to another building.

Let's start with materials. The original house probably looked a lot like the example below—a long, rectangular form, built with irregular rubblestone coursing. The new additions shift the focus to smooth, white vinyl siding, probably over wood-frame construction.

Additions usually work best when they read as secondary. In this instance, the side addition looms larger than the original house. And there's no getting around the new third storey, which rests *on top* of the house. In fiddling with the roof, the builder also altered the roofline—a guarantee of major change, since roofs generally comprise 30% of a building's surface. Put all the alterations together, and there's not much left of the original structure. It's been ignored, one might say. And in this case, ignorance isn't bliss.

Thanks to Steve Rosenberger of Easton, Penn., for spotting these examples along the New Jersey-Pennsylvania border.

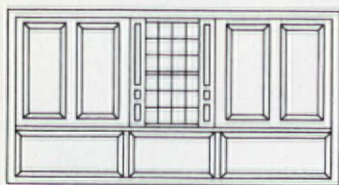


WIN FAME AND \$50. If you spot a classic example of remuddling, send us clear color slides. We'll award you \$50 if your photos are selected. The message is more dramatic if you send along a picture of a similar unremuddled building. (Original photography only, please; no clippings.) Remuddling Editor, Old-House Journal, 2 Main Street, Gloucester, MA 01930.

The stone house in Finesville, New Jersey, at right, has probably seen a few alterations of its own. The builder used complementary materials and massing.

Old-House Journal [ISSN 0094-0178] VOL. XXV, NO. 3 is published bimonthly for \$27 per year by Dovetale Publishers, The Blackburn Tavern, 2 Main Street, Gloucester, MA 01930. Telephone (508) 283-3200. Subscriptions in Canada \$35 per year, payable in U.S. funds. Periodical postage paid at Gloucester, MA and at additional entries. POSTMASTER: Send address changes to Old-House Journal, P.O. Box 58017, Boulder, CO 80328-8017.

Maple Grove Restorations



Interior Raised Panel Shutters

Raised Panel Walls

Wainscoting

P.O. Box 9194 Bolton, CT 06043-9194

(860) 742-5432

Color Brochure: \$2.00

slate & tile roofing materials

NEW & VINTAGE

Looking for that special finishing touch for new construction or a restoration project? We carry a wide variety of patterns & colors in new & vintage slate, clay tile, & others....Call us whether you need 5 Slates for a repair or 50 squares of Tile for a roof renovation.

north central supply

800/203-9165

fax: 815/962-7860

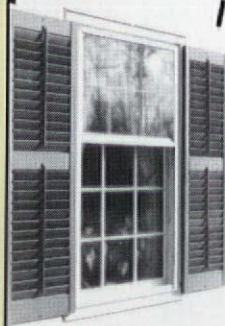
The Woodfactory
Authentic Victorian Millworks

111 Railroad St., Dept. OHJ
Navasota, TX 77868
409-825-7233

Moldings • Screen Doors • Porch Parts
Custom Woodwork • Ornamental Trim

Send \$2.00 for a Catalog

EXTERIOR SHUTTERS IN CEDAR



Shipped Anywhere
Moveable Louvers, fixed
louvers or raised panel.
Custom curved tops.
Unfinished or painted in
your brand & color.
Interior Plantations in
2 3/8" and 3 1/2" louvers.
Hinges and Holdbacks.

Brochures/Prices, call or write:
SHUTTERCRAFT, 282 Stepstone Hill
Guilford, CT 06437 (203) 453-1973

CHIMNEY TOPS

Genuine Victorian Antiques
(European and American)

The Finishing Touch for
Your Chimney,
Plain to Fancy

Also, Ornate European
Cast Iron Fall Pipe Tops

**BENTLEY
ENTERPRISES**
1915 BRUSH RUN ROAD
AVELLA, PA 15312
PHONE/FAX 412/345-3601

EARLY AMERICAN LIGHTING

Authentic handmade reproductions,
faithful in every detail to the originals.
Many in famous museum collections.



PERIOD LIGHTING FIXTURES, INC.
167 River Rd., Box 04057, Clarksburg, MA 01247
1-800-828-6990 Catalog: \$5.00

**WEST
SYSTEM** BRAND Epoxy's

SUGGESTIONS FOR HOUSEHOLD REPAIR

Use WEST SYSTEM® epoxy to
solve dozens of common
problems around the house
and yard. A 14-page illustrated
manual shows you how. Order
your FREE copy today.

WRITE GOUGEON, DEPT. OHJ

PO BOX 908, BAY CITY MI 48707

OR CALL 517-684-7286

SQUARE DRIVE SCREWS

Simply the Best!

Square Drive Beats Driver Slippage
Hardened Steel for Extra Strength
Deep Thread for Super Grip
Also Stainless And Brass

Send \$3 for Samples and Catalog

McFEELY'S P.O. Box 11169 • Dept OHJ
SQUARE DRIVE SCREWS Lynchburg • Va • 24506
1-800-443-7937 or FAX 1-800-847-7136

Traditional Shutter Hardware

James Peters & Son, Inc.
MANUFACTURERS
OF HARDWARE

1936 North Front Street Philadelphia, PA 19122
Phone: 215-739-9500 Fax: 215-739-9779
Sold through hardware distributors

Uncle
John's
Gingerbread
HOUSE TRIM

**BRACKETS,
PENDANTS
& GABLES**, in
matched sets, **FRAMES**
INCLUDED on all pieces.
QUALITY work, that's
ECONOMICALLY
PRICED!
**SEND \$2.00 for
CATALOG to:**
5229 Chopique Rd.
Sulphur, LA 70663

■ PORCHES • BOOKSHELVES • HUTCHES • PANTRIES • WINDOW SEATS ■
■ COLONNADES • FRENCH DOORS • BUILT-INS • PERGOLAS ■

HOUSE PLANS

INSPIRED BY THE CRAFTSMAN ERA
BUNGALOWS • FOURSQUARES • COTTAGES

CATALOG OF DESIGNS \$10
SEND CHECK OR MONEY ORDER OR CALL FOR MORE INFORMATION
ASHMORE/KESSENICH DESIGN • (503) 286-6258
6336 NE GARFIELD AVE. • PORTLAND, OR 97211
■ PORCHES • BOOKSHELVES • HUTCHES • PANTRIES • WINDOW SEATS ■

Boyle's Ornamental Iron, Inc.

Three generations of craftsmen since 1902


- EASY BOLT TOGETHER SYSTEM
- 5 STANDARD STYLES
- CUSTOM DESIGN AND FABRICATION ON REQUEST.

Available in spray painted enamel
or powder coat finish

**BOYLER'S
ORNAMENTAL
IRON**

4407 State St. Bettendorf, Iowa 52722
(319) 355-3709

ANTHONY
WOOD PRODUCTS



Gable Trim
Fretwork
Brackets
Corbels
1979

Porch Posts
Newel Posts
Balusters
Finials
1997

Box 1081-OH Hillsboro, TX 78845
800/669-2181
Illustrated Catalog Available—\$3

GLASS INTERIOR Storm Windows



• Maintain the charm & beauty of existing windows (NO replacements. NO unsightly triple-track storms)
• Eliminate Drafts completely
• Reduce Heating & Cooling bills up to 30%
• Low "E" and UV Protection available
• Compression fit DIY installation
• Patented trackless mounting
• Factory direct custom sizes
• Easy - No tools - Snap in & Out

Watch for us on
THIS OLD HOUSE

the Alternative
WINDOW COMPANY

1-800-743-6207 • (860) 651-3951 • fax: (860) 651-4789
15 Herman Drive, Simsbury, CT 06070

Authentic Antique Hardware



- One of a Kind
- No Reproduction
- Door Hardware
- Furniture Hardware
- Door Knockers
- Curtain Tie-backs
- Twist Bells

Eugenia's

5370-72 Peachtree Road, Chamblee, GA 30341
800-337-1677 / Bus. (770) 458-1677 / Fax (770) 458-5966
CATALOG \$1


Custom Shutters

Interior and Exterior
Wholesale to the Public

2 1/2" Moveable louver, raised panel and fixed louver shutters. Custom finished or unfinished. Complete selection of hardware.

\$2.00 brochure

Shutter Depot
RT. 2 Box 157
GREENVILLE, GA 30222
706 • 672 • 1214



HANDCRAFTED MAHOGANY

SCREEN-STORM DOORS

Styles include Victorian & Country

SEND \$3. FOR CATALOG TO:
Touchstone Woodworks
DEPT. OHJ PO BOX 112
RAVENNA, OH 44266
(330) 297-1313



WOODEN FLOOR GRATES




Specializing in larger sizes
6"x8" to 20"x32"

3 floor models and baseboard model unfinished or prefinished
Send \$2.00 for catalog and receive a \$5. coupon to:

GRATE VENTS
(a division of Knight's Maintenance)
9502 Linder Ave. • Crystal Lake, IL 60014
(815) 459-4306

BALDWIN



Lexington Design mortise lock handleset with knob and oval plat trim inside - polished brass with new BALDWIN Lifetime Finish \$295.00 plus shipping cost. Miss. residents add 7% tax. VISA and MasterCard accepted.

Call toll-free 800-821-2750
Ask for the Hardware Department

Addikson
HARDWARE CO. INC.

126 E. Amite St., PO Box 102,
Jackson, MS 39205

ORIGINAL FINISH RESTORATION SOAP

Developed by a restoration firm for cleaning historic finishes. Mixes with mineral spirits or water for use on furniture, floors and wood work.

Super-Concentrate: two convenient sizes
6 oz and 16 oz

Visa & Mastercard • 1-800-444-8900
INTARSIA ARTS


IRON FENCING & GATES



Manufacturer of Iron Fencing and Gates
Pattern in Victorian and Many Decorative Styles
Send \$2.00 For Catalog:

CUSTOM IRONWORK, INC.
P.O. Box 180 (606) 384-4122
Union, KY 41091 FAX (606) 384-4848

Fine American Lighting
Real American Value
From Lighting by Hammerworks



Lanterns, Scones, Chandeliers, and Hand-Forged Hardware

Send \$5 for two full color catalogs and discover how you can enjoy the beauty and quality of our Colonial lighting in your home to:

Lighting by Hammerworks
6 Freemont St., Dept. OHJ, Worcester, MA 01603, 508-755-3434
118 Main St., Dept. OHJ, Meredith, NH 03079-7352
http://www.hammerworks.com

J.L. Powell & Co., Inc.
Manufacturers of Quality Antique Heart Pine Flooring
Introducing our new product...



Antique Heart Pine Floor Registers

Our floor registers are made from the same beautiful and warm Longleaf Heart Pine as our tongue-and-groove flooring, and are a great complement to your finished floor.

Call us today at 1-800-227-2007 for pricing & availability
(910) 642-8989 FAX: (910) 642-3164
600 SOUTH MADISON ST., WHITEVILLE, NC 28472
PARENT COMPANY ESTABLISHED 1876

CLEARANCE SPECIAL

ACORN

All First Quality Hardware
Knobs • Pulls • Hinges
Black, Copper, Pewter, Old English

Also a complete line of...
Belwith, Amerock and Christensen Brass Hardware

Call or Fax your order in...
Kalisz Tel: 508-995-5123
Fax: 508-995-5333



Smith • Cornell impressions



Call or write for a:
• **FREE** brochure
• **FREE** quote

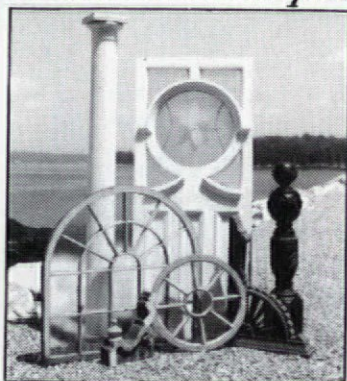
We specialize in:

- Sand cast plaques in Bronze & Aluminum
- GraphicsPlus-Smooth Surface Plaques and Markers
- Combination of cast with a GraphicsPlus insert
- OldStandard National Register Plaques

S.C

1545 Holland Rd. • Suite K
Maumee, Ohio 43537
419.891.4335 • 800.325.0248

Architectural Antiques



Premier source for salvage items nationwide.

- Doors, windows, stained glass
- Brass lighting fixtures
- Victorian plumbing fixtures & accessories
- Fireplace mantles and accessories

Visit our picturesque Maine oceanfront location, where Yankee value is still important. Select from thousands of quality architectural items.

Architectural Antiquities



Harborside, ME 04642 (207) 326-4938

Call to order video or to receive free brochure

Antique Wide Plank Flooring

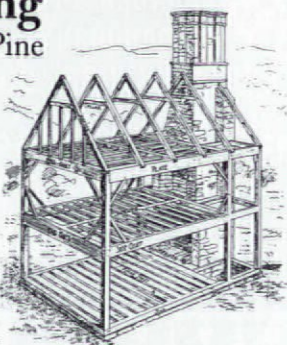
Heart Pine • Eastern White Pine • Red Pine
Chestnut • Oak

New Plank Flooring

Ash, Maple, Oak, Cherry, Eastern White Pine

Antique & Reproduction Beams & Timber Frames

Hand-Hewn, Rough Sawn & Planed Surfaces
Mortise & Tenon, Dovetail Joinery



ARCHITECTURAL TIMBER & MILLWORK

35 Mt. Warner Rd, PO Box 719, Hadley MA 01035 (413) 586-3045 FAX (413) 586-3046

NOT ALL CHIMNEY LINERS ARE CREATED EQUAL.

Home restoration experts know the difficulties involved in making old chimneys into safe and structurally sound chimneys, while maintaining their historic integrity.

That's why more and more people are calling on GOLDEN FLUE. We're the cost-in-place masonry liner experts with America's most fire retardant chimney lining mixture.

Poured and hardened right in the chimney, GOLDEN FLUE even increases the strength of the original structure.

Before you settle for a stainless steel liner, tile liner, or GOLDEN FLUE "look-a-like" call the experts who started it all for a free brochure and the name of an authorized GOLDEN FLUE dealer in your area.



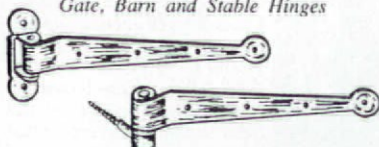
Call For A FREE Brochure Today. 800-446-5354



We're In
America's
Most Historic
Chimneys.

Gate Hardware

Your Source for Traditional
Gate, Barn and Stable Hinges



James Peters & Son, Inc.
MANUFACTURERS
OF HARDWARE

1936 North Front Street • Philadelphia, PA 19122
Phone: 215-739-9500 Fax: 215-739-9779
Sold through hardware distributors

GENUINE MILK PAINT

Authentic Colonial and Shaker Finish

In powder form Add water and mix
environmentally safe non-toxic odor-free
easy to use long wearing will not fade

16 colors include: Barn Red, Salem Red, Pumpkin,
Marigold Yellow, Mustard, Buttermilk, Bayberry Green,
Tavern Green, Lexington Green, Sea Green, Federal Blue,
Soldier Blue, Slate, Pitch Black, Oyster White, Snow White

See your local dealer

If none locally, write or phone for free literature.
Trial pint, only \$8.50, plus \$4.00 shipping & handling.

The Old Fashioned Milk Paint Company
Dept. J, Box 222, Groton, MA. 01450-0222
Telephone (508) 448-6336 FAX (508) 448-2754

Sunflower Showerhead Company

8" Diameter
Installs into
standard
plumbing



Brass \$150
Chrome \$125

For More Information: P.O. Box 4218-J Seattle, WA 98104
(206) 722-1232 (FAX) 722-1321



FREE COLOR CATALOG



1-800-876-6123
ASK FOR DEPT. 2507

Hundreds of styles, fabrics and colors to choose from ... something for every style of home. More lengths and widths than you'll find almost anywhere. Plus matching bedding, lamps and accessories. Marvelous decorating solutions ... wonderfully affordable! Satisfaction guaranteed or your money back.

Country Curtains.

AT THE RED LION INN
DEPT. 2507, STOCKBRIDGE, MA 01262

Old-House Journal Web Site Directory

ABATRON, INC.: <http://www.abatron.com>

ALBANY WOODWORKS:
<http://www.io.com/~webreach/AlbanyWoods.htm/>

ANTIQUE HARDWARE & HOME:
<http://www.antiquehardware.com>

CABOT STAINS:
<http://www.cabotstain.com>

CHADSWORTH 1.800.COLUMN:
<http://www.columns.com>

CHELSEA DECORATIVE METAL CO.:
<http://www.THETINMAN.com>

CROWN POINT CABINETRY:
<http://www.crown-point.com>

DELEON RESTORATION:
<http://www.medtex.com/drw/>

DONALD DURHAM:
<http://www.waterputty.com>

ELK PREMIUM ROOFING:
<http://www.elkcorp.com>

ERIE LANDMARK CO.:
<http://erielandmark.com/plaques>

FAUX EFFECTS: <http://www.fauxfx.com>

GLOUCESTER CO.:
<http://www.phenoseal.com>

GRANVILLE MANUFACTURING:
<http://www.woodsiding.com>

HOMESAVER CHIMNEY:
<http://www.homesaver.com>

THE IRON SHOP:
<http://www.theironshop.com>

J.R. BURROWS: <http://www.burrows.com>

KING'S CHANDELIER CO.:
<http://www.chandelier.com/>

LIGHTING BY HAMMERWORKS:
<http://www.hammerworks.com>

NIXALITE OF AMERICA:
<http://www.nixalite.com>

PORTER CABLE TOOLS:
<http://www.porter-cable.com>

PROTECH SYSTEMS:
<http://www.hearth.com/pts>

SB TOOL:
<http://www.boschtools.com>
<http://www.skiltools.com>

SPECIFICATION CHEMICALS INC.:
<http://www.spec-chem.com>

TIMBERLANE WOODCRAFTERS INC.:
<http://www.timberlane-wood.com>

VINTAGE WOOD WORKS:
<http://www.vintagewoodworks.com>

WOOD KOTE: <http://www.woodkote.com>

WILLIAM ZINSSER & CO.:
<http://www.zinsser.com>

EMPORIUM Ad Index

PRODUCT NETWORK NO.	PAGE NO.	PRODUCT NETWORK NO.	PAGE NO.
20	AA Abbington Affiliates.....81	Intarsia Arts.....66	
31	Abatron, Inc.....11	Iron Shop, The.....67	
29	Aberdeen Group.....88	J.B. Products.....81	
598	Acom Manufacturing Company.....69	J.L. Powell & Company, Inc.....85, 96	
	Addison Hardware Co., Inc.....96	J.R. Burrows & Company.....62	
23	Ahten's Chimney Technique.....76	James Peters & Son.....95, 97	
19	Al Bar-Wilmette Platers.....81	Joinery Company.....74	
517	Albany Woodworks.....92	Kalish Home Improvement.....96	
805	Allied Windows.....18	Kennebec Company, The.....21	
	Alternative Window Company.....96	King's Chandelier Company.....93	
599	American Home Supply.....24	Liberty Cedar.....93	
611	American International Tool Industries.....72	Lighting by Hammerworks.....96	
841	American Tool.....6	Mac The Antique Plumber.....88	
	Anthony Wood Products.....96	Maple Grove Restorations.....97	
49	Antique Hardware & Home.....Back Cover	McFely's.....97	
568	Architectural Antiquities.....95	Michigan Hoosier Co.....94	
24	Architectural Iron Company.....25	Midwest Architectural Wood Products.....85	
652	Architectural Timber & Millwork.....95	Miller Manufacturing.....92	
799	Arroyo Craftsman Lighting, Inc.....5	Monarch Radiator Enclosures.....93	
353	ARSCO Manufacturing.....27	Newbridge Communications.....3	
340	Avid's Historic Woods.....82	Nixalite of America.....79	
	Ashmore/Kessenich Design.....97	Northstar Acrylic Designs.....71	
	Atlantic Recycled Paper.....93	Old Fashioned Milk Paint Co.....95	
593	Bendheim Glass.....69	Oregon Wooden Screen Door.....88	
73	Bentley Enterprises.....87	Patina Finishes & Copper.....89	
863	Bind-X.....97	Period Lighting Fixtures.....97	
	Boyle's Ornamental Iron Inc.....97	Petit Industries, Inc.....79	
27	Bradbury & Bradbury.....63	Pelphs Company/Architectural Specialists.....93	
	Brandon Industries.....26	Pioneer Millworks.....93	
	Bruce Szopko.....93	Preservation Products.....8	
879	Cabot Stains.....12, 13	Primrose Distributing.....75	
91	Carlisle Restoration Lumber, Inc.....86	Princeton Plans Press.....27	
312	Certified Chimney Contractors, Inc.....89	ProTech Systems, Inc.....77	
684	Chadsworth, Inc.....21	Pullman Manufacturing Corp.....67	
35	Charles Street Supply.....69	Reggio Register Company.....87	
47	Chelsea Decorative Metal.....77	Rejuvenation Lamp & Fixture.....16	
694	CinderWhit & Company.....93	Renovator's Supply.....17	
26	Classic Accents.....79	Restoration 97.....82	
733	Commercial Gutter Systems.....92	Roy Electric Company.....30	
42	Country Curtains.....95	Royal Conservatories.....25	
603	Country Designs.....21	S.B. Tools.....2	
865	Country Road Assoc., Ltd.....87	S.H. Christiansen, Inc.....97	
864	Craftsman Hardware Co.....26	Schwerd Manufacturing.....15	
212	Craftsman Lumber.....81	Shutter Depot.....96	
307	Crown City Hardware.....4	Shuttercraft.....97	
935	Crown Point Cabinetry.....63	Smith-Cornell Impressions.....95	
936	Crown Point Cabinetry.....67	Snelling's Thermo-Vac, Inc.....92	
44	Cumberland Woodcraft.....81	Specification Chemicals.....26	
	Custom Ironwork.....96	Stewart Iron Works Company.....92	
518	Custom Wood Turnings.....72	Strassen Plating.....82	
245	Decorator's Supply.....79	Sunflower Shower Company.....95	
	DeLeon Restoration Works.....93	Sylvan Brandt.....67	
7	Designer Doors, Inc.....71	Timberlane Woodcrafters Inc.....72	
101	Devenco Louver Products.....89	Touchstone Woodworks.....96	
595	Donald Durham Company.....27	Uncle John's Gingerbread House.....97	
746	Elk Corporation.....69	Van Dyke's.....94	
55	Erie Landmark.....31	Vintage Wood Works.....89, 90	
	Eugenia's Place.....96	Vixen Hill.....27	
221	Fan Man, The.....26	Vulcan Supply Corporation.....75	
615	Fein Power Tools, Inc.....9	W.F. Norman Corporation.....85, 87	
25	FireSide Magic.....76	Ward Clapboard Mill.....75	
204	Fischer & Jirouch.....71	Williams & Hussey.....85	
488	Follansbee Steel.....9	Wood Factory, The.....97	
560	Gates Moore Lighting.....89	Wood Kote Products, Inc.....77	
33	Gloucester Co., Inc.....31	Woodhouse, Inc.....78	
17	Glencore AC Inc.....75	Yield House.....78, 86	
792	Golden Flue.....95	Zehring Corporation.....77	
806	Good Time Stove Co.....63		
661	Gougeon Brothers, Inc.....97		
387	Granville Manufacturing.....72		
	Grate Vents.....96		
302	Hardware Plus.....18		
874	Healy Brothers Foundry.....92		
621	Heirloom Reproductions.....31		
	Heritage Brass Company.....93		
580	Historic Floors of Oshkosh.....87		
875	Holmes Garage Door.....63		
565	Home Saver Chimney Liners.....89		

Advertising Sales Office

2 Main Street, Gloucester, MA 01930
(800) 356-9313
Becky Bernie, National Sales Manager

HOOSIER CABINETS

Hand Crafted Hoosier Replicas

- Hoosier Cabinets • Pantries
- Porcelain Top Tables • Hardware
- Authentic Porcelain Tops
- Tin Flour & Sugar Bins
- Tin Bread Drawers
- Carousel Spice Racks
- Cooking Charts
- Ant Traps & More!

Hardware Catalog \$ 5.00
Hoosier Catalog w/finish samples \$ 9.60
" " w/ descriptive Hoosier video \$ 19.60

The Michigan Hoosier Co.
253 W. Peters Rd. Dept. ohj
West Branch, MI 48661

(517)
345-7098

VAN DYKE'S RESTORERS

Supplies for woodworkers and
antique restorers!



- Caning & veneers
- Curved & bubble glass
- Roll top accessories
- Hoosier accessories
- Carvings & moldings
- Furniture components
- Over 1,000 Brass, Glass & Wooden Hardware items
- Much, Much More

Call or Write
For Your FREE Catalog

1-800-843-3320
Dept. 60117 • PO Box 278
Woonsocket, RI 02895

True Lead Crystal Knob Sets

Spectacular! Exact Duplicates, Mirror Silvering Inside,
Fits All Doors. Brass - Chrome - Antique Brass

Clear or Amber

(same price)

Passage (Brass) 74.00
Privacy (Brass) 78.00
Dummy (Brass) 70.00
Knobs Only (Brass) 55.00
Add 11.00 for Chrome
or Antique Brass.



Free 2nd Day Air on all Orders! In stock for immediate delivery!

Call or mail check to:
DeLeon Restoration Works
102 W. Lowe Dept. 1
DeLeon, Texas 76444
Tx. Res. add 7.75% Sales Tax

Ph: (817)893-4177
Fax: (817)893-3862
New area code 254 May '97
<http://www.medtex.com/drwl>

CinderWhit & Company

Porches • Stairways • Wood Turnings

- Authentic Replications • Prompt Quality Service • Work From Drawings or Samples •
- Porch Posts • Balusters • Newels • Spindles • Finials •
- Lengths To 12 Feet • Free Brochure •

Ph. 701-642-9064 • Fax 701-642-4204
Toll Free 1-800-527-9064
733 Eleventh Avenue South Wahpeton, ND 58075

ALL STEEL RADIATOR ENCLOSURES

FOR HOMES, OFFICES, CHURCHES, INSTITUTIONS



FROM \$21⁸⁵

BUY FACTORY DIRECT & SAVE • EASY TO ASSEMBLE
MANY STYLES & COLORS • BAKED ENAMEL FINISH
Send \$1.00 for Brochures. Refundable with Order.

MONARCH

Dept OHJ
2744 ARKANSAS DRIVE, BROOKLYN, N.Y. 11234
(201) 796-4117

100% Cotton Shower Curtain!

Were they using plastic curtains when your house was built?
Don't think so. Be authentic and environmentally correct
with our tightly woven 100% cotton duck shower curtain.
It keeps water in the tub (no liner necessary) and it's machine washable! Rustproof brass grommets.
Size: 6' x 6'. White or Natural. Use with Mildew Stain-Away.
List: \$38.75, SALE PRICE: \$32.00 + 4. S&H. (until 6/30/97)
Send check to:



nope (non-polluting enterprises)
21 Winters Lane, Baltimore, MD 21228.
Free price sheet. Wholesale inquiries welcome.
VISA/MC orders: call 800-323-2811.

ELEGANT, SOLID BRASS Stair Rods

Holds Stairway Carpet in Place
Large 3/8" x 30" Polished Brass Rods

Ball, Urn or
Pineapple Finials

Set of 13 \$158.00 ppd.

Includes Rods, Finials & Fasteners
Singles \$13.00/Ea. MC, VISA, CK.

Easy, Fast Installation
Custom Lengths
(814) 887-6032

HERITAGE BRASS CO.

5 Long St., Smethport, PA 16749



NEW

WOOD ROOFING

WESTERN RED CEDAR

5/8 X 18 TAPERSAWN SHAKES

ALSO: HIP & RIDGE CAP/FANCY BUTTS
CEDAR DECKING & ACCESSORIES
CLEAR BOARDS & TIMBERS

1-800-88CEDAR
401-789-6626

535 LIBERTY LANE
WEST KINGSTON, RI 02892

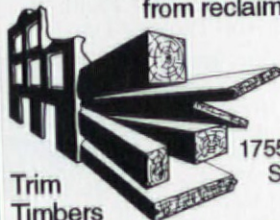


LIBERTY CEDAR
EXTERIOR WOOD PRODUCTS

Pioneer Millworks

HEART PINE & FIR FLOORING

Reproduction period flooring
from reclaimed timbers



Trim
Timbers
Board Stock

1755 Pioneer Rd
Shortsville NY
14548

(716) 289-3090

MANUFACTURER'S PRICES

Elegance You Can Afford

FOR OVER HALF A CENTURY

Direct from King's, the Designers and Makers.

\$4.00 for illustrated catalog (1st class mail)
of our all-crystal chandeliers; our genuine
SWAROVSKY STRASS; our handsome, hand-polished
brass and crystal (wired) Victorian gas reproductions.
Satisfaction guaranteed.

See us on the internet @ <http://www.chandelier.com/>

KING'S CHANDELIER COMPANY

910-623-6188

PO Box 667 Dept OHJ597, Eden NC 27289



Repro
copper pulls
& lighting
by Stickley
and more.



Arts & Crafts Hardware

Bruce Szopo
3860 Ellamae
Oakland, MI 48363
(810) 652-7652



Free
Brochure

LAMPPOSTS • ENTRANCE GATES & ARCHES • IRON FENCE

THE STEWART IRON WORKS COMPANY
A Tradition of Excellence Since 1886

Send \$6.00 for our catalog

P.O. Box 2612 (OHJ) • 20 West 18th Street • Covington, Kentucky 41012-2612 • (606) 431-1985

SIGNAGE • ROOF CRESTINGS

RAILINGS • BENCHES • URNS

"I'll have Your Order Ready In One Week"

When you need a cast bronze national register plaque you want fast delivery. Not a six week run-around. At Healy Brothers Foundry, fast delivery is our standard delivery on every order.

Call today... 800-626-3229 ask for me, Deanna, your personal Historic Preservation Specialist. I'll answer all your questions on design and installation.

FREE catalog, price quotes, historical society discounts, custom logos, and FAST-FAX artwork approval.

Healy Brothers Foundry
A DIVISION OF HEALY BROTHERS CORPORATION

THIS PROPERTY HAS BEEN PLACED IN THE NATIONAL REGISTER OF HISTORIC PLACES BY THE UNITED STATES OF AMERICA

THE FRANKLIN PUBLISHING BUILDING RESTORED WITH THE ASSISTANCE OF THE COUNCIL FOR DOWNTOWN REDEVELOPMENT REDEDICATED JULY 1, 1992

OLD COLLEGE MANSION CIRCA 1810 HISTORIC DISTRICT

SILENT SERVANT™ DUMBWAITERS

CALL FOR THE DEALER NEAREST YOU
800-232-2177

Manual Dumbwaiters
COMMERCIAL • RESIDENTIAL

FEATURE-PACKED DESIGN

- Fully Automatic Brake
- Engineered Aluminum Guide Rails
- Precision Molded Bearing
- Quality Guide Shoes
- Simplicistic Design
- Time-saving Installation Features
- Energy Saving

AN APPLICATION FOR EVERYONE

- RESIDENTIAL**
Use the SILENT SERVANT to:
Carry laundry, firewood, groceries, prepared food, etc.
- COMMERCIAL**
Restaurants, schools, banks, office buildings, warehouses

165 Cascade Court, Dept. OHJ
Rohnert Park, CA 94928
FAX (707) 584-0850

MILLER MANUFACTURING, INC.

COMMERCIAL GUTTER SYSTEMS
MILES AHEAD OF THE REST

TODAY'S TECHNOLOGY PRESERVING THE LOOK OF THE PAST

If you appreciate the "Olde World" style of gutters and downspouts and desire to restore and preserve your home in harmony with the original intent of its design, Commercial Gutter Systems introduces authentic 6" seamless half-round gutter in both heavy copper and heavy aluminum.

Heavy Duty 5/16" Copper Plated Stainless Steel or Aluminum Rods with Stainless Steel Nuts

Self Tapping Stainless Steel Screws

Our Unique "User Friendly" Front Lip

Gutter - Heavy Gauge 20 oz. Copper or Heavy Gauge .032 Aluminum

Heavy Duty .060 Stainless Steel or .080 Aluminum Brackets

- up to 27' lengths shipped safely
- complete line of half-round accessories
- casted brass & aluminum fascia brackets
- casted brass & alum. decorative components
- buy direct from the exclusive manufacturer
- information available upon request

5621 East 'D.E.' Avenue
Kalamazoo, MI 49004
Phone: 616-382-2700
Fax: 616-343-3141

CEILINGS PLUS

The Elegance and Beauty of Yesterday for Today!

Exact replicas of the beautiful old tin ceilings are now available in durable, lightweight, high impact polymer plastic. They are easy to install, paintable and washable. Available in fire-rated materials and colors. Several patterns from which to choose. Please write or call:

Snelling's Thermo-Vac
— INC —

P.O. Box 210, Blanchard, LA 71009
Office (318) 929-7398
FAX (318) 929-3923

ANTIQUE HEART PINE FLOORING

T&G Planks up to 11" wide
EXPOSED BEAMS
Dry ♦ Aged - Superb
Heart Pine Stairparts

ANTIQUE HEART CYPRESS

Custom Milling ♦ Doors
Paneling ♦ Shutters

AMERICAN HARDWOOD FLOORING
Beautiful
Unfinished or Prefinished
Naildown or Gluedown

For a Free Brochure, call:
(504) 567-1155
<http://www.io.com/~webreach/AlbanyWoods.html>

Albany Woodworks
P.O. BOX 729, ALBANY, LA 70711

Chimney Technique.

29. HOW-TO BOOKS ON CONCRETE & MASONRY — The Aberdeen Bookstore catalog contains manuals, videos and training materials to help you when working with concrete and masonry. Dozen of titles on troubleshooting and repair, construction techniques, concrete forming, masonry fireplaces and estimating. Free literature. Aberdeen Group.

35. PLASTER WASHERS — These inexpensive washers can resecure loose ceilings and walls. Starter packet of 3 dozen washers with instructions, \$4.75. Charles Street Supply.

38. CHIMNEY LINERS — Ventinox continuously welded liner connects chimney top to heat source without joints or breaks. Reduces condensation, increases heating efficiency, improves safety. Free catalog. ProTech Systems, Inc.

312. CHIMNEY CLEANING, RESTORATION & REPAIRS — Year-round, full-service chimney cleaning, repair and restoration. We specialize in Ahrens, Supafu and stainless steel relining processes. Free literature. Certified Chimney Contractors, Inc.

492. DESIGN PORTFOLIO — Full-page drawings with descriptions of custom crafted traditional kitchens, and a color brochure featuring on-location photographs of Kennebec kitchens, \$10.25. The Kennebec Company.

565. CHIMNEY LINERS — Flexible chimney relining pipe constructed of 4 interlocked layers of the finest certified 304-stainless steel. Free brochure. HomeSaver Chimney Liners.

603. BUILDING PLANS — Colonial and Victorian-style garages, barns, sheds, garage apartments, studio cottages, and more. Illustrated catalog, \$6.25. Country Designs.

645. METAL ITEM RESTORATION — Restoration and protection of registers, hinges, brass beds, cold air returns, lamps, window and door hardware, chandeliers, plumbing fixtures, and more. Literature, \$5.25. Strassen Plating.

726. PRESERVATION & RESTORATION — AcryMax Tin Roof restoration systems is high performance acrylic technology assuring years of waterproof protection. Free catalog. Preservation Products.

758. HOUSE PLANS — Offering a collection of cozy cottages in designs influenced by early European architecture. \$12.25 per collection. Princeton Plans Press.

792. CHIMNEY LINERS — Cementitious, pumped-in-place lining for single, multiple, straight, or offset flues. Free literature. Golden Flue.

863. END BIRD POLLUTION — Bird control "X-perts" for over 30 years. Full line of bird and pest repelling products: sonic and ultrasonic units, visual scare devices, physical exclusions, non-toxic chemicals and NEW SPIKES. Free literature. Bird-X.

900. MILDEW CONTROL-EXTERIOR — Remove mildew stains quickly and easily without harming or discoloring painted surfaces, grass or shrubbery. Use for routine clean-up or for pre-painted mildew control. Free literature. Zehrung Corporation.

903. CONSERVATORIES — Designed in England, manufactured in the USA. Built on-site from cedar or aluminum/vinyl. Insulated glass and polycarbonate make these weatherproof designs easy to heat and cool. Free literature. Royal Conservatories.

906. IDEA BOOK — Unique 44-page color idea book features an exciting collection of column projects from Classic to Contemporary for interiors and exteriors. Includes Product Portfolio. All this for \$10.00, plus \$3.25 p/h. Chadsworth, Inc.

LITERATURE REQUEST FORM

Circle the numbers of the items you want, and enclose \$3 for processing. We'll forward your request to the appropriate companies. They will mail the literature directly to you . . . which should arrive 30 to 60 days from receipt of your request. Price of literature, if any, follows the number. Your check, including the \$3 processing fee, should be made out to Old-House Journal.

1. Free	42. Free	397. \$6.75	622. Free	805. \$2.50
2. \$5.25	44. \$4.75	401. \$3.25	631. \$25.25	806. Free
5. Free	47. \$1.25	438. Free	645. \$5.25	841. Free
7. Free	49. \$3.25	439. Free	652. Free	853. \$5.25
10. Free	53. \$3.25	488. Free	659. \$1.25	854. \$4.50
11. \$3.25	55. Free	492. \$10.25	661. Free	863. Free
13. \$2.25	73. Free	517. Free	675. Free	865. Free
16. \$2.75	91. \$5.25	518. \$5.75	679. Free	874. Free
17. Free	101. Free	538. Free	684. Free	875. Free
19. Free	110. \$6.25	541. Free	687. \$3.25	879. Free
20. \$1.25	122. \$6.25	545. Free	694. Free	891. \$2.25
22. \$2.25	128. \$3.25	560. \$2.25	702. Free	900. Free
23. Free	212. \$2.25	565. Free	722. Free	903. Free
24. \$1.25	221. \$2.25	568. Free	726. Free	906. \$13.25
25. Free	242. \$5.25	569. Free	728. \$3.25	908. \$15.25
26. \$1.25	245. \$3.25	580. Free	730. \$3.25	929. Free
27. \$10.25	294. \$10.25	593. Free	733. Free	934. Free
28. Free	302. Free	595. Free	744. Free	935. Free
29. Free	309. Free	598. Free	746. Free	936. Free
30. Free	312. Free	599. \$2.25	753. Free	940. Free
31. Free	334. \$4.00	603. \$6.25	758. \$12.25	
33. Free	340. \$6.25	611. Free	788. Free	
35. \$4.75	353. Free	615. Free	792. Free	
38. Free	387. Free	621. \$3.25	799. \$5.25	

Name _____ Total \$ _____
 Company _____ P & H \$3.00
 Address _____
 City _____ St _____ Zip _____ Total Enclosed \$ _____
 Phone _____

Mail to: Old-House Journal, Products Network, 2 Main Street, Gloucester, MA 01930
 This card must be mailed before October 31, 1997.

9706

Many Years Ago

we announced the renewed availability of our old-fashioned, solid wood **Architectural Details!**

Soon our quality Details were turning up on the best dressed porches. Now, 10 thousand porches later, we've written the book! With 208 pages of authoritative insight, numerous construction details, and over ninety comparative drawings, **Porches** is really a must for anyone planning a porch.



\$12.95
postpaid

Gable Decorations

were an instant success when we began offering designs to fit any standard roof pitch. Easy ordering is fully explained in our Catalogue.

Over the Kitchen Sink...

became a choice location as our custom-length SPANDRELS brightened your rooms and porches!

Plain Doorways?

Not since you've discovered our vast array of BRACKETS!

And don't forget our elegant & functional SCREEN/STORM DOORS for lasting first impressions!

Bringing Back
Yesterday in
Quality & Service!



*104 pages of hard-to-find
Architectural Details!
CATALOGUE \$2

VINTAGE WOODWORKS

Hwy. 34 South • P.O. Box R, #3183
Quinlan, Texas 75474

(903) 356-2158

www.vintagewoodworks.com

© VWW 1997

TEMPORUM Products Network (cont.)

low pricing. Free brochure. Healy Brothers Foundry.

Millwork & Ornament

13. **VICTORIAN MILLWORK** — Porch and newel posts, baluster, mouldings, gables, brackets, corbels, folding screens, screen doors, stair parts, gazebo, custom-length spandrels, shelves, and window cornices. 104-page catalog, \$2.25. Vintage Wood Works.

44. **VICTORIAN MILLWORK** — 19th-century designs in solid oak and poplar. Fretwork, brackets, corbels, grilles, turnings, & gingerbread precision manufactured. Color catalog, \$4.75. Cumberland Woodcraft.

101. **SHUTTERS & BLINDS** — Custom-made colonial wooden blinds, movable louver, and raised-panel shutters. Pine or cedar, painted or stained. Free brochure. Devenco Louver Products.

294. **PLASTER ORNAMENT** — Restoration and reproduction with fiber-reinforced plaster. Complete catalog of 1500 items, \$10.25. Fischer & Jirouch.

340. **WOOD MOULDINGS** — Internationally recognized company offering over 500 beautiful wood mouldings. 104-page catalog, \$6.25. Arvid's Historic Woods.

518. **CUSTOM TURNINGS** — Newel posts, porch posts, column bases, fluting, spiral rope twists, and more. Catalog, \$5.75. Custom Wood Turnings.

652. **ARCHITECTURAL MILLWORK** — Everything from doors to columns. Manufacturers of heart pine, chestnut, and wide-plank flooring. Free literature. Architectural Timber & Millwork.

694. **CUSTOM TURNINGS** — Providing a custom turning service of porch posts, newels, balusters, and stair parts. Prompt, quality service. Free quotes. CinderWhit & Co.

929. **MASTERMOLD FLEXIBLE MOLD-MAKING COMPOUND** — MasterMold 12-3 makes tough, flexible molds in 1 easy application. Ideal for vertical and overhead surfaces. Excellent for deep undercuts and fine details. Free literature. Abatron, Inc.

Plumbing & Hardware

19. **METAL ITEMS** — Restorer of antique metal items such as door and window hardware, plumbing hardware, lighting fixture and fine silverware. Metal polishing and plating of silver, brass, bronze, copper and more. Free literature. Al Bar-Wilmette Platers.

28. **WINDOW HARDWARE** — Sash pulleys, sash chain, sash cord. Fine quality cast brass sash locks and lifts in traditional designs. All items in stock for immediate shipping. Free catalog with photos, information and template drawings. Phelps Company.

49. **RENOVATION HARDWARE** — Hard-to-find supplies including brass cabinet hardware, lighting, weathervanes, pedestal sinks, old-fashioned bathtub showers, and fixtures. Mail-order catalog, \$3.25. Antique Hardware Store.

ware, lighting, weathervanes, pedestal sinks, old-fashioned bathtub showers, and fixtures. Mail-order catalog, \$3.25. Antique Hardware Store.

110. **BATHROOM FIXTURES** — A wide variety of antique and reproduction plumbing, tubs, porcelain faucets and handles, pedestal sinks, high-tank toilets, and shower enclosures. 96-page color catalog, \$6.25. Mac The Antique Plumber.

302. **RESTORATION HARDWARE** — Over 1000 different brass items for houses and furniture. Plumbing, lighting, wall and ceiling coverings, tin ceilings, and more. Free literature. Hardware Plus.

309. **REPRODUCTION BRASS SHOWER-HEAD** — A unique 12-inch showerhead which generates thousands of waterdrops to cover the entire body in a gentle rain. Free brochure. J.B. Products.

397. **HARD-TO-FIND HARDWARE** — From the 16th century through the 1930s; using brass, iron, pewter, and crystal. Catalog includes 34 pages of informative text and 372 pages of high-quality restoration hardware, \$6.75. Crown City Hardware.

538. **FIXTURES & ACCESSORIES** — Bathroom fixtures and accessories such as door, window, and cabinet hardware. Lighting fixtures. Free catalog. Renovator's Supply.

598. **FORGED-IRON HARDWARE** — A complete line of quality hardware in four unique architectural styles. Offered in 9 finishes from black iron to our new antique verdigris and russet. Free catalog. Acorn Manufacturing Co.

599. **BRASS HARDWARE** — Offering hardware for furniture and home for interior and exterior applications. Reproduction lighting available. Catalog, \$2.25. American Home Supply.


908. **VICTORIAN-STYLE WHIRLPOOL BATHTUBS** — Acrylic/fiberglass bathtubs, jetted and non-jetted, 20 styles, 27 colors solid and marbled designer colors. Color samples and brochure, \$15.25. Northstar Acrylic Designs.


Restoration Supplies & Services

5. **PIGEON CONTROL** — Get rid of pigeons and other birds with inconspicuous stainless steel needles that eliminate roosting places without harming your building. Free brochure. Nixalite of America.

17. **GLOWCORE SERIES "A" BOILER** — 92% efficient, CPVC vent, sealed combustion and the smallest foot print in the industry, define modern boiler technology. The series "A" will lower heating costs and provide domestic hot water for the grand old home. Free literature. Glowcore.

23. **CHIMNEY FLUE LINER** — Poured-in-place, 2-liner system. No mess, 1-day process. First liner strengthens and insulates; second liner seals and protects. Free catalog. Ahren's






HOME SAVER® CHIMNEY LINERS

FOR RESTORING GREAT OLD CHIMNEYS ON GREAT OLD HOMES

New life for gas, oil, and woodburning chimneys. Our UL Listed, flexible, stainless steel liners are unsurpassed in strength and protection. Call or write for a FREE brochure and the name of an installer in your area. (800) 437-6685.

HomeSaver Chimney Liners • P.O. Box 664, Fairfield, IA 52556 • www.homesaver.com






AUTHENTIC
PERIOD WOODEN BLINDS
MOVEABLE LOUVER SHUTTERS
OLD-FASHIONED
WOODEN PORCH SHADES
CUSTOM MANUFACTURED
Call or write for free brochure
and cost schedule

DEVENCO

120F Waller Miller Rd.
Ste. 240, Dept. OHJ-06.97
Williamsburg, VA 23185
1-800-888-4597



HANDCRAFTED
To The Drip On The Tapered Candles



Early American Lighting since 1938; chandeliers, copper lanterns, and wall sconces.

Knowledgeable collectors, Restorations and Museums have been buying our fine fixtures for over 30 years. A list is available on request. \$2.00 for catalog.

GATES MOORE
River Road, Dept OHJ
Silvermine Norwalk, Conn.
06850 • Tel. (203) 847-3231

**COPPER • BRASS
BRONZE & PEWTER
METAL COATINGS**

(WATER BASE FOR ALL SURFACES)

PATINA

ANTIQUE FINISHES
VERDIGRIS, GREEN, BLUE
BLACK, BROWN, BURGUNDY

FREE BROCHURE
1-800-882-7004

**Fireplace & Chimney
RESTORATION**

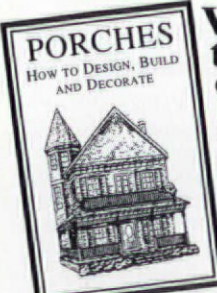
- Lining (all types)
- Rebuilding
- Repairs

- Chimney Cleaning
- Chimney Caps

Fully Insured  Serving Tri-State Area Since 1960

**CERTIFIED CHIMNEY
CONTRACTORS**

3122 Route 10 West • Denville, NJ 07834
201-361-1783



PORCHES
HOW TO DESIGN, BUILD
AND DECORATE

Buy Direct & Save!
Satisfaction Guaranteed

**VINTAGE
WOODWORKS**

Hwy 34 • Box R, #3184, Quinlan, TX 75474
903-356-2158 • www.vintagewoodworks.com

We wrote the book!

Our 150 years of combined experience wrote *Porches* - 208 pages of insight for building or decorating a porch! Many construction details + 90 comparative drawings show porch trim options. \$12.95

Also - 104 page **Catalogue of Architectural Details** for interior & exterior \$2 by return mail



**sash pulleys,
sash chain and
traditional brass
window hardware**

PHELPS COMPANY
ARCHITECTURAL SPECIALTIES

8 0 2 - 2 5 7 - 4 3 1 4

Catalog Sale



ANTIQUE PLUMBING AND LIGHTING SUPPLIES FOR THE ENTIRE HOME

Mac The Antique Plumber carries the best and largest selection of antique plumbing supplies in the world... and other places, too! Our NEW 1996 catalog features 70 pages of plumbing supplies including leg tubs, shower enclosures, high and low tank toilets (including our new pillbox toilet), pedestal sinks, and a variety of bathroom parts and accessories; 13 pages of house hardware. In all, 2,000 different products are featured in our 96-page full-color catalog.

*Forget the rest, we're the best
We will match or beat any advertised price, guaranteed*

MAC THE ANTIQUE PLUMBER

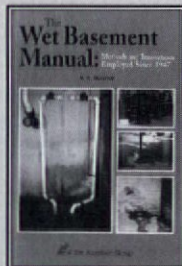
6325 Elvas Ave., Dept. OHJ-0597
Sacramento, CA 95819 800-916-BATH (2284)
916-454-4507 (CA) 916-454-4150 (FAX)
Catalog \$6.00 (refundable on first order)

BASEMENT WATER PROBLEMS?

Reviewed and Recommended in
Old House Journal's Good Books May/June 1996

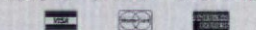
The Wet Basement Manual

Offering solutions to damp and flooded basements, author Maurice, a construction contractor, shares 50 years of experience helping people control residential and commercial basement water problems—around windows, fireplaces, walls, and foundations. Instructions and illustrations on inner and outer drain systems, sump pumps, dry wells, French drains, and more.
62 pages, soft cover



❖ Item no. 1060 \$14.95
(plus \$3.25 shipping)

Call toll-free
800-323-3550



The Aberdeen Group®

H8

EMPORIUM Products Network (cont.)

polyurethanes and more. Free literature. Wood Kote Products, Inc.

Furnishings

221. **ANTIQUE FANS** — Restoring and selling of antique fans and parts. Offering a large changing inventory. Detailed brochure, \$2.25. The Fan Man.

353. **RADIATOR ENCLOSURES** — The durability of steel with baked enamel finish in decorator colors. More efficient than paint, and keeps drapes, walls, and ceilings clean. Free catalog. ARSCO Manufacturing.

593. **100% COTTON SHOWER CURTAINS** — Our tightly woven cotton duck keeps water in the tub and plastic liners out of the landfill. Brass grommets. Free literature. Atlantic Recycled Paper.

621. **FURNITURE** — Supplier of factory-direct Victorian and French reproduction furniture, lamps, and accessories at 40-50% off. Catalog, \$3.25. Heirloom Reproductions.

722. **AMERICAN COUNTRY-STYLE FURNITURE** — Shaker, traditional, and oak tables and cabinets. Accessories include pillows, doorstops, rugs, and specialty items. Free catalog. Yield House.

865. **19TH CENTURY BARNWOOD** — We sell barnwood very reasonably and we're the only haxers of 19th century furniture to use 19th century barnwood. Free full color brochure. Country Road Assoc., Ltd.

Lighting Fixtures

10. **CRAFTSMAN LIGHTING** — Reproduction craftsman chandeliers & sconces fit right into any Bungalow, Mission, Foursquare, or traditional home. Solid brass or cast iron. Free catalog. Rejuvenation Lamp & Fixture.

11. **VICTORIAN & TURN-OF-CENTURY LIGHTING** — Recreating fine period lighting of the 19 and 20 century Americana. Reproduction of unusual styles. 32-page catalog, refundable with purchase, \$3.25. Roy Electric Company.

334. **CHANDELIERS & SCONCES** — Original

designs of all-crystal, using genuine Stass. Solid brass and venetian crystal reproductions of Victorian gas styles (wired). Catalog, \$4.00. King's Chandelier Company.

560. **EARLY AMERICAN LIGHTING** — Hand-made reproduction fixtures include wall sconces, chandeliers, copper lanterns, & hall fixtures. Catalog, \$2.25. Gates Moore Lighting.

799. **ARTS & CRAFTS LIGHTING** — Fine interior, exterior and landscape lighting inspired by the Arts and Crafts Movement. Multiple sizes, finishes and art-glass choices. Color catalog, \$5.25. Arroyo Craftsman Lighting, Inc.

Metalwork

30. **HISTORIC MARKERS** — Proclaim your home's age with a cast bronze or aluminum marker. Manufacturers of plaques for National Register, American Buildings Survey, and custom work. Free catalog. Smith-Cornell Impressions.

55. **CUSTOM-MADE PLAQUES** — Historic markers for indoor or outdoor use. Standard solid bronze cast plaques, 7" x 10". Other dimensions & styles available. Free brochure. Erie Landmark.

122. **CUSTOM-MADE IRONWORK** — Ornamental iron fences and gates. Matching of old fences is available using authentic Victorian patterns and castings. Catalog, \$6.25. Stewart Iron Works Company.

545. **SPIRAL STAIRS** — Magnificent for Victorian settings. The beauty of cast iron, but not the weight. All components, except handrail, are solid castings of high-strength aluminum alloy. Free color brochure. The Iron Shop.

659. **GRILLES & REGISTERS** — Manufacturers of a complete line of elegant cast-brass and traditional cast-iron decorative grilles and registers. Color catalog, \$1.25. Reggio Register Company.

874. **NATIONAL REGISTER PLAQUES** — Solid bronze cast plaques proclaiming your house as being placed on the National Register. Custom bronze plaques. Buy foundry direct for

HANDSOMELY CRAFTED WOODEN SCREEN DOORS

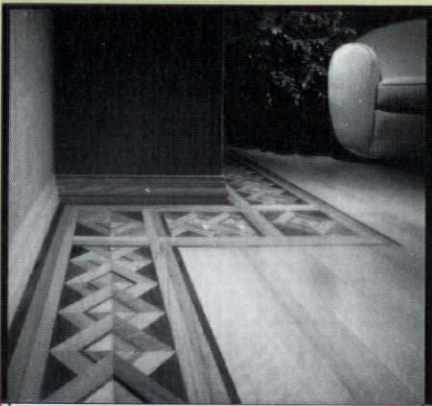
Whether your home is on the Historical Register, or still on the drawing board, Oregon Wooden Screen Door Company has a variety of screen doors and energy-efficient storm doors suited to you.

Designed for interior as well as exterior use, each door component is constructed using the finest materials and joined with wooden pegs and glue (no nails).

For complete information and styles available, send \$3 (refundable with Purchase) for our catalogue. Oregon Wooden Screen Door Company Dept. OHJ, 2767 Harris, Eugene, OR 97405



Oregon Wooden Screen Door company



Classic Hardwood
Reproductions of **BORDERS**
and Full Room
PATTERNED FLOORING
Circa 1880-1920

Geometric & Laser-cut
MEDALLIONS

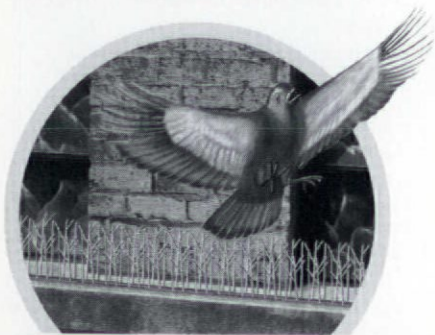
*Call or write for free literature
and local distributor*

**HISTORIC FLOORS
OF OSHKOSH, INC.**

P.O. Box 572
Oshkosh, WI 54902
(414) 582-9977
FAX (414) 582-9971

Block Pest Birds from Landing Strips!

SPIKES® NOTHING
COMES
CLOSE!



- TRANSPARENT
- ECONOMICAL
- DENSE
- TOUGH
- EASY TO INSTALL
- FLEXIBLE
- ENVIRONMENTALLY SAFE

Call **800-662-5021** or write today for
literature featuring the most effective range of bird-
repellent products available. Eliminates pest birds
and the mess they bring to your property.

THE BIRD CONTROL "X-PERTS"

BIRD-X 

300 N. ELIZABETH ST. DEPT. OHJ
CHICAGO IL 60607
312-BAN-BIRD 312-226-2480 FAX



Architectural Sheet Metal Ornaments

Now available from the W. F. Norman Corporation, makers of Hi-Art® Steel Ceilings - a
complete, 94-year-old line of architectural sheet metal ornamentation including:

- | | | | | | |
|------------|-------------|-----------|-----------------|-------------|-------------------|
| • moldings | • balusters | • finials | • marquee | • crestings | • lion heads |
| • brackets | • urns | • scrolls | • enrichments | • garlands | • conductor heads |
| • corbels | • capitals | • leaves | • glass pendant | • panel | • and fittings |
| • rosettes | • festoons | • friezes | • frames | • ornaments | |

Over 1300 catalog items available in zinc or copper. Custom reproduction inquiries invited.

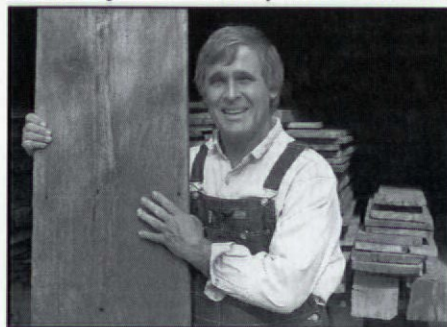
W.F. Norman also produces building cornices, lintels, capitals, window hoods, finials
and weathervanes.

W.F. NORMAN CORP.

Complete catalog \$2.50 • P.O. Box 323, Nevada, MO 64772 • 800-641-4038 • fax 417-667-2708

**"I sell barnwood very reasonably.
Call me for a price quote."**

Joe Rizzo, Proprieter - Country Road Associates, LTD.



- Flooring in rare chestnut, wide-board pine, oak, & heart pine
- All wood in natural state, with trimmed ends
(can be thickness planed and tongue & grooved)
- Random widths from 3" to 20"
- Weathered barnsiding in different natural colors: classic red,
gray, silver gray, and brown.
- Large Quantities available • Deliveries throughout the USA

AUTHENTIC 19th C. HAND HEWN BEAMS UP TO 13" WIDE, RANDOM LENGTHS

COUNTRY ROAD ASSOCIATES, LTD.,

P.O. Box 885, Millbrook, NY 12545

914-677-6041 Fax: 914-677-6532

PLEASE VISIT OUR NEW SHOP ON FRANKLIN AVENUE.

OPEN THURS - SUN 10-4 OR BY APPOINTMENT

**Enrich Your Home With
Quality Grilles & Registers**

Cast Iron • Cast Brass • Cast Aluminum • Wood

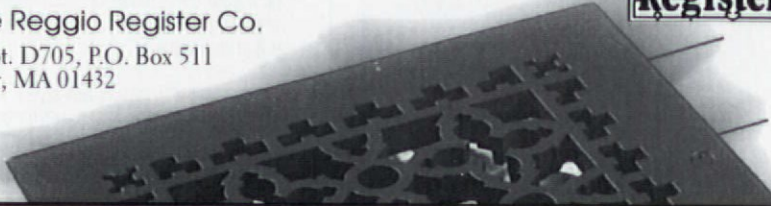
Over 200 Sizes & Styles in Stock • 44 Page Color Catalog \$1

Call (508) 772-3493


The Reggio Register Co.

Dept. D705, P.O. Box 511
Ayer, MA 01432

**Reggio
Registers**



WIDE PLANK FLOORING



Carlisle
RESTORATION LUMBER

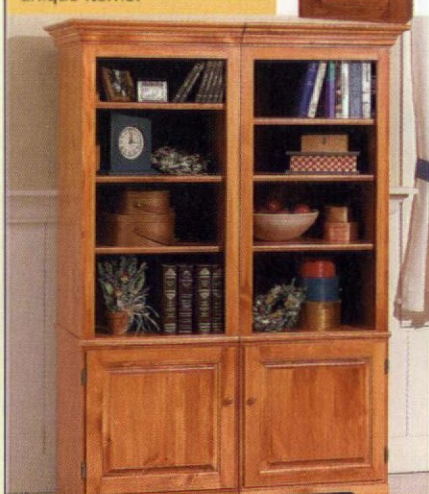
Eastern White Pine • Southern Heart Pine
Red & White Oak • Cherry • Maple

HCR 32 Box 556C, Stoddard, NH 03464
(800) 595-9663 • (603) 446-3937
fax (603) 446-3540
Nation-Wide Service for over 30 years

FREE CATALOG

SHAKER

Style that's right for today's home. New England made Shaker and Country Style home furnishings and home decorator accessories since 1947. Hundreds of unique items.



1-800-659-0206

Ask for Dept. YH267, or write.

Yield House
P.O. 2525, Dept. YH267 Conway, NH 03818

EMPORIUM Products Network (cont.)

made for nail-up or suspended grid systems. Fire-rated materials and colors available. Free literature. Snelling's Thermo-Vac, Inc.

Doors & Windows

7. **CUSTOM WOOD GARAGE DOORS** — Vintage carriage door looks recreated as automatic overhead garage doors. Hand-crafted, custom designed doors of top quality woods. Curved tops Free literature. Designer Doors, Inc.

16. **WOOD SASH** — Any size and shape: divided lite, round top, curved, double-hung, fixed, casement, or storm sash. Insulated glass, shutters, screen doors, and trim. Illustrated brochure, \$2.75. Midwest Architectural Wood Products.

53. **WOODEN SCREEN DOORS** — Blending function, fine craftsmanship, and styling. Dozens of innovative styles ranging from the classic design to highly ornamental. Catalog, \$3.25. Oregon Wooden Screen Door.

622. **WINDOW SPRING COUNTERBALANCES** — The alternative system to window weights and pullies. For double-hung windows. Efficient and economical. Free literature. Pullman Manufacturing Corp.

753. **HIDEAWAY SCREEN** — Hide-Away roll-up insect screens are ideal for French and sliding glass doors, pass-through windows. Can be used both interior and exterior, can be installed to operate horizontally or vertically. Free literature. Petit Industries, Inc.

805. **INVISIBLE STORM WINDOWS** — Match any window shape or color; removable storm windows for the inside or outside mounted, screen or glass panels, fixed, magnetic, sliding or lift-out styles. Color brochure, \$2.50. Allied Windows.

875. **CUSTOM GARAGE DOORS** — Manufacturer of premium quality wood sectional garage doors. Custom sizes and patterns readily available. Now featuring the authentic "Carriage House" garage doors. Free literature. Holmes Garage Door.

891. **SHUTTERS** — Offering a full line of western red cedar shutters with over 18 styles including raised panel, louver, and recessed panel designs. Authentic hardware and in-house painting services available. Catalog, \$2.25. Timberlane Woodcrafters, Inc.

Finishes & Tools

31. **ROTTED WOOD RESTORATION** — 2-part epoxy system restores rotted wood so you can save historically significant and hard-to-duplicate pieces. Free brochure. Abatron, Inc.

33. **PHENOSEAL** — A premium line of safe and easy-to-use adhesives, sealants and waterproofing. Products that are rugged, flexible, mildew and water resistant, non-toxic, and offer great adhesion to a wide variety of surfaces. Suited for the home remodeling/restora-

tion industries and "do-it-yourselfers". Free literature. Gloucester Co., Inc.

439. **MOLDER-PLANNER** — Reproduce railings, sashes, crowns, rails, window and door stops, and curved moulding with shatter, free finishes. Free information kit. Williams & Hussey.

569. **STRUCTURAL EPOXY CEMENT** — Abocrete patches and resurfaces concrete, fills cracks, and replaces missing concrete. Abojet structural crack-injection resins restores monolithic integrity to cracked loadbearing structures. Free brochure. Abatron, Inc.

595. **ROCK-HARD PUTTY** — Ideal for repairing walls, woodwork, and plaster. It can be sawed, chiseled, polished, colored, and molded. Free literature. Donald Durham Co.

611. **PAINT SHAVER** — This patented ecologically-safe power tool strips paint from shingles and clapboards. The dust collector allows encapsulation of debris for retrieval. Free literature. American International Tool Industries.

615. **DUST-FREE SANDING** — Vacuum system HEPA filter available with the Random Orbit sander, half-sheet finish sanders, rotary sanders, and triangular sander. Free color brochure. Fein Power Tools, Inc.

661. **WEST SYSTEM EPOXY** — Additives and application tools ideal for high strength glueing. Epoxy and materials are a versatile solution to dryrot repair. Free catalog. Gougeon Brothers, Inc.

702. **WATER BASE METALLIC COATINGS** — Copper, brass, bronze, mauve and silver. Finishes include green, blue, burgundy and black. They can be applied to metal paints and solid metals. Free literature. Patina Finishes & Copper Coats, Inc.

728. **REPRODUCTION COLORS** — Authentic reproductions of 18 and 19 century architecture. For most exterior and interior surfaces, as well as furniture and decorative painting. Literature, \$3.25. Primrose Distributing.

744. **POWER TOOLS** — Manufacturing and marketer of a full line of cordless power tools, plus accessories for do-it-yourself, professional and industrial markets. Free literature. S.B. Tools.

841. **MARATHON SAW BLADES** — American Tool Companies. Complete family of 22 thin-kerf C-3 carbided tipped saw blades to cover all common applications. Free literature. American Tool.

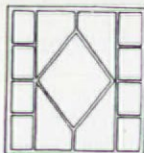
879. **TODAY'S COATINGS FOR YESTERDAY'S HOMES** — Manufacturers of premium-quality exterior wood stains and wood-care products. Our system offers a unique product for virtually every application, including surface preparation products. Free literature. Cabot Stains.

940. **STAINING/FINISHING** — Manufacturers of preparation, staining and finishing products for wood and composite surfaces. Products include wood bleach; paste grain filler; Jel'd Stain; stainable lacquer; solvent based

REPLACE ROTTED SASH

Any style, any size.
Wood storms and
screens, too. Costs
less than you think.

Fast turnaround. Insulated glass
available. Send \$2.50 for literature.



MIDWEST



300 Trails Road
Eldridge, IA 52748
319/285-8000
FAX 319/285-8003

**NOW
AVAILABLE!**

Decorative Metal Ceilings

Original turn-of-the-century patterns

Using eighty year old dies, the W. F. Norman Corporation is once again producing metal plates for the design of ceilings and wall coverings. Their growing popularity stems not only from nostalgia but from their beauty, permanence, fireproofing and economy.

The fullness of the Hi-Art™ line — including center plates, corner plates, border plates, cornice and filler plates — permits classic designs to be produced that are architecturally proportioned for an exact fit.

Write for reproduction copy of 72 page illustrated catalog. Price \$3.

W.F. Norman Corporation

P.O. Box 323 • Nevada, Missouri 64772 • 1-800-641-4038

Fax: 417-667-2708

MOLDER / PLANER FOR

STRAIGHT, CIRCULAR, ELLIPTICAL* MOLDINGS
(Casings, Crowns, Picture Frames, Raised Panels)



Our W • 7S Model offers
Versatility and Durability

FEATURES:

- Duplication of historic profiles up to 3/4 in. deep
- Solid cast-iron base & head
- Molder-to-planer in less than 2 minutes
- Portable — on site or in the shop
- 7,000 rpm/two-knife system produces 78 cuts per in.
- 100 standard knives
- Custom knives
- Five-year warranty
- Fully American-made!

* Elliptical jig required

EJ Elliptical jig allows
radii as small as 7 in.



Williams & Hussey Machine Co. Inc.
Dept. 567EB

P.O. Box 1149 • Wilton, NH 03086

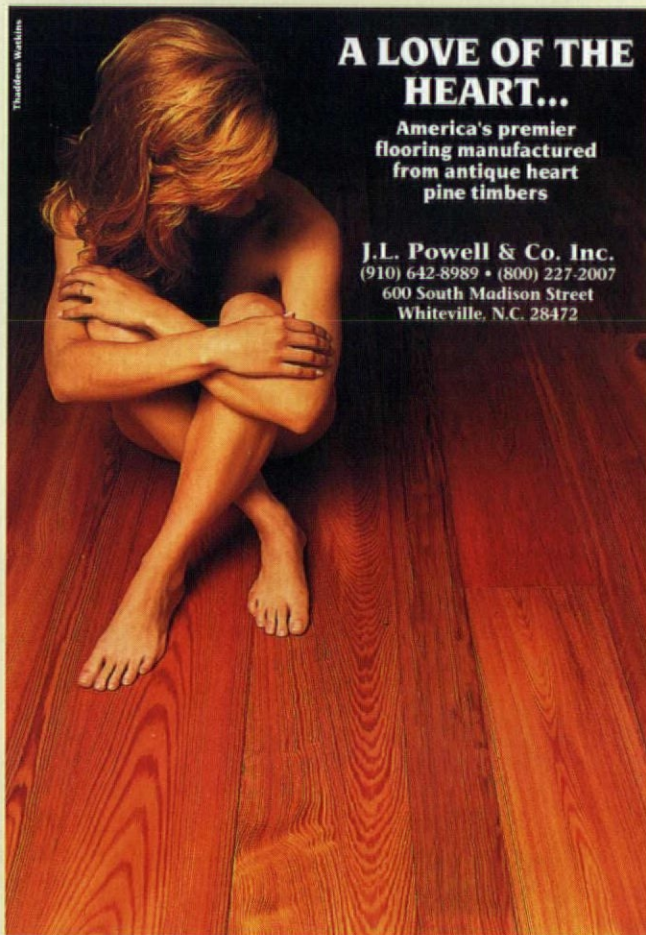
Tel: 800-258-1380 (USA) or 603-654-6828

Fax: 603-654-5446

A LOVE OF THE HEART...

America's premier
flooring manufactured
from antique heart
pine timbers

J.L. Powell & Co. Inc.
(910) 642-8989 • (800) 227-2007
600 South Madison Street
Whiteville, N.C. 28472



The advertisers in this issue have literature available, and you can get as many catalogs as you need just by filling out one form.

Building Components

1. **TRADITIONAL WOOD COLUMNS** — From 4" to 50" diameter, up to 35' long. Matching pilasters and 6 styles of capitals. Ventilated aluminum plinth & column bases. Custom work done. Free catalog. Schwerd Manufacturing.
2. **HEART PINE FLOORING** — Flooring cut from 200-year-old lumber. Edges and bottoms remilled for easy installation, but patina of old surface remains. Wainscotting, hand-hewn beams, mantels, and stair parts. Brochure, \$5.25. The Joinery Company.
24. **CAPITAL CRESTING** — America's leading producer of roof crestings offers a complete line of lightweight, easy to install, economical to ship, unbreakable steel roof cresting and matching finials. Size may be modified, including length, height and thickness. Literature, \$1.25. Architectural Iron Company.
73. **RESTORATION GLASS** — Imperfect glass is perfect for restoration work. Each sheet is made by using the original cylinder method. Free brochure. Bendheim Glass.
91. **TRADITIONAL WIDE PLANK FLOORING** — Up to 20" wide. Authentic floors. Your source for beautiful plank flooring nationwide for over 30 years and through two family generations. Literature, \$5.25. Carlisle Restoration Lumber, Inc.
212. **EXTRA-WIDE BOARDS** — Pine boards for flooring or panelling. Custom mouldings and millwork. Literature, \$2.25. Craftsman Lumber.
242. **WOOD COLUMNS** — From Authentic Replication to Stock in a variety of sizes and designs. Interior and exterior. Product portfolio includes column brochure, technical information and price list. Catalog, \$5.25. Chadsworth, Inc.
387. **QUARTERSAWN CLAPBOARDS** — Vertical grain clapboards eliminate cupping, warping, and accepts paint and stains well. True representations of Colonial architecture. Free brochure. Granville Manufacturing.
401. **CEDAR SHUTTERS** — Clear, old growth western red cedar shutters will outlast pine and plastic in looks and life. Brochure, \$3.25. Vixen Hill.
438. **QUARTERSAWN CLAPBOARDS** — Vertical grain clapboards eliminate warping for extended life. Free brochure. Ward Clapboard Mill.
488. **METAL ROOFING MATERIALS** — Producers of terne and terne-coated stainless. Quality material with a history of proven performance. Free catalog. Follansbee Steel.
517. **HEART PINE FLOORING** — Narrow to wide, guaranteed quality, stair parts, paneling, doors, cabinetry, beams, antique heart cypress, custom milling, shutters. Freight discounts. Free literature & sample. Albany Woodworks.
541. **MANUAL DUMBWAITERS** — The Silent

Servant incorporates many unique features to deliver smooth, quiet operation with a minimum of effort. For residential and commercial applications. Free brochure. Miller Manufacturing, Inc.

580. **REPRODUCTION HARDWOOD FLOORING** — Authentic parquet borders, strips, and full floor patterns. Free brochure. Historic Floors of Oshkosh.

631. **HEART PINE FLOORING** — Antique heart pine flooring, doors, mantels, mouldings, stair parts, cabinets, and lumber. Standard run/ custom milled. Literature and samples, \$25.25. J.L. Powell & Company, Inc.

675. **WALL RESTORATION** — Repair cracked plaster walls and ceilings. Installs easier than wallpaper; no need to remove woodwork. Stops air infiltration and creates a vapor barrier. Free video. Specification Chemicals.

679. **SHAKER CABINETRY** — Fine quality Shaker Style cabinetry available nationwide. Features include flush inset styling, hand selected materials and time tested furniture construction. Free color literature. Crown Point Cabinetry.

684. **FIBERGLASS COLUMNS** — Our classic Ploystone columns are load bearing and do not require ventilation, are ready to paint, impervious to insects and fire/impact resistant. Free flier. Chadsworth, Inc.

730. **HANDCRAFTED BY VERMONT COPERSMITHS** — Finials, weathervanes, vented ridge, ridge cresting, leader boxes, cupolas, and roof vents. Custom orders are also welcome. Catalog, \$3.25. Vulcan Supply Corp.

733. **GUTTER PRODUCTS** — Offering copper and aluminum half-round gutters with accessories; copper and aluminum bay window strip miters; copper-colored aluminum coils and more. Free literature. Commercial Gutter Systems.

746. **CAPSTONE SHINGLES** — The only premium shingles with slate-like looks and dimensionality. Offered in 2 colors. Free brochure. Elk Corporation.

806. **ANTIQUE STOVES - SALES & RESTORATIONS** — Specializing in the restoration and sale of antique heating stoves and kitchen ranges. All stoves are original antiques. Stay Warm! Free literature. Good Time Stove Co.

853. **WOOD FLOORS** — Specializes in antique wood floors, stair parts, cabinets, and beams. Antique heart pine, oak, yellow pines and more. Brochure, \$5.25. Woodhouse, Inc.

854. **HANDCRAFTED HOOSIER REPLICAS** — Single cabinet or complete Hoosier ensemble. Circa 1925 charm with all the features (see ad). Free-standing, practical storage space. Catalog, \$4.50. Michigan Hoosier Co.

934. **VICTORIAN CABINETRY** — Fine quality Victorian style cabinetry available nationwide. Features include beaded inset styling, bead-board panel doors, and all wood construction. Free color literature. Crown Point Cabinetry.

935. **ARTS AND CRAFTS CABINETRY** — Fine quality Arts and Crafts style cabinetry available nationwide. Features include Craftsman doors,

Mission toekicks, and quarter sawn white oak construction. Free color literature. Crown Point Cabinetry.

936. **EARLY AMERICAN CABINETRY** — Fine quality Early American style cabinetry is available nationwide. Features include Old cupboard doors, Genuine Old Fashioned Milk Paint finish, and blind mortise and tenon joinery. Free color literature. Crown Point Cabinetry.

Decorative Materials

20. **TIN CEILINGS** — 22 original Victorian and Art Deco tin ceiling patterns. Several patterns by special order in brass and/or copper. Cornices, pre-cut miters, and center medallions. Brochure, \$1.25. AA Abbingdon Affiliates.

22. **NOTTINGHAM LACE CURTAINS** — Real Victorian lace, woven on 19th-century machinery, using original designs. Catalog, \$2.25. J.R. Burrows & Company.

25. **CAST STONE FIREPLACE SURROUNDS** — Beautiful, elegant and maintenance-free, our fireplace surrounds bring the old world into your house. Many styles and sizes available. Nationwide shipping. Free catalog. Fireside Magic.

26. **PUSH-BUTTON SWITCHES** — Quality reproductions. Switch plates are available in ornamented or plain brass. Brochure, \$1.25. Classic Accents.

27. **VICTORIAN ROOMSET WALLPAPERS** — Complete collection of Victorian wallpapers that you can combine in infinite variations. Neo-Grec, Anglo-Japanese, Aesthetic Movement. Superb catalog, \$10.25. Bradbury & Bradbury.

42. **BEFORE YOU CONSIDER CUSTOM...CONSIDER COUNTRY CURTAINS!** — Hundreds of styles and fabrics. More lengths and widths than you'll find almost anywhere. Free 68-page color catalog. Country Curtains.

47. **TIN CEILINGS** — 22 patterns of tin ceilings ideal for Victorian homes and commercial interiors. 2'x4' sheets available. Cornices in 4' lengths. Brochure, \$1.25. Chelsea Decorative Metal.

128. **TIN CEILINGS** — Producing richly ornamented metal ceilings in turn-of-the-century patterns using original dies. Center plates, borders, corner plates, cornice, and filler plates. Catalog, \$3.25. W.F. Norman Corporation.

245. **PLASTER ORNAMENTS** — Hundreds of plaster ornaments from late 19th & 20th century periods made using original molds. Ceiling medallions, brackets, grilles, cornices, and more. Illustrated catalog, \$3.25. Decorator's Supply.

568. **ORIGINAL ARCHITECTURAL ITEMS** — Brass lighting, hardware, fireplace accessories, plumbing fixtures, and more. Primarily Victorian period. Free brochure. Architectural Antiquities.

687. **DRAPERY HARDWARE** — Decorative metal drapery hardware available, as well as a full line of cast-iron spiral and straight staircases. 16-page stair catalog along with illustrated curtain information. \$3.25. Steptoe & Wife.

788. **DECORATIVE CEILING TILES** — Polymer ceiling tiles resemble tin ceilings. Tiles are



READY TO DECORATE?

Let the old-house experts inspire you.

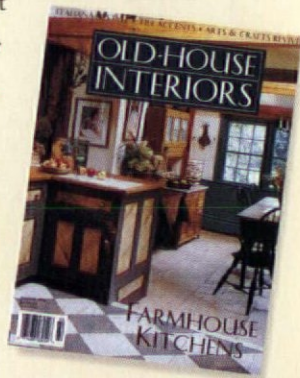
OLD-HOUSE INTERIORS is the quarterly magazine on decorating and furnishing ideas from the publishers of *Old-House Journal*. You'll find inspiration in the lavish color photos and intelligently written articles—plus practical advice and source lists for wainscot and lighting, period furniture, and carpets. *Old-House Interiors* blends the historical approach with design flair. What you'll see is not decorating fads, but

a classic approach to interior design. **TO ORDER:** For convenience, use the postpaid order card opposite. Or call

1-800-462-0211

and charge to MC or VISA. Subscriptions for *Old-House Interiors* are \$18 for four issues. **GIFTS:** Have your

thoughtfulness remembered throughout the year. Fill out the card opposite or call the number above (we'll even send you a handsome card to announce your gift).



**OLD-HOUSE
INTERIORS**

THE NEW MAGAZINE OF PERIOD DESIGN



Experience the Beauty, Intelligence, and Inspiration of Old-House Interiors.

TIN ROOF RESTORATION SYSTEMS

**NOW THERE IS A 21ST
CENTURY SOLUTION TO
18TH CENTURY ROOFING
PROBLEMS!**

AcryMAX®

Acrylic Roof Coating System

Restores, beautifies, repairs and weath-
erproofs tin roofs. (Also works great on
wood, asphalt and other surfaces.) Easily
applied, Environmentally safe. Available
in many colors. Durable and long lasting.

(800) 553-0523

CALL OR WRITE TODAY FOR FREE BROCHURE!

PRESERVATION PRODUCTS

221 Brooke Street, Media, PA 19063
(610) 566-7470 FAX: (610) 891-0834



Historical & Architectural Mouldings & Accessories

- Custom, special order and stock mouldings and accessories
- Custom woodworking: Fireplace mantels, AV cabinetry, doors & stair parts
- Finish lumber, plywood, hardwoods: Custom material preparation
- 120-page catalog \$6.00

ARVID'S WOODS

2500 HEWITT AVENUE, EVERETT, WA 98201

1-800-627-8437

FAX: 1-206-258-4334

RESTORATION

RESTORATION® is the largest
comprehensive commercial trade exhibition
and conference dedicated to the restoration, renovation
and re-creation of historic exteriors and interiors.

RESTORATION/Atlanta

Cobb Galleria Centre
Atlanta, Georgia
April 18-20, 1997

RESTORATION/Chicago

Merchandise Mart
Chicago, Illinois
October 16-18, 1997

For more information, contact:

EGI Exhibitions, Inc.

129 Park Street

North Reading, MA 01864 USA

508.664.6455, fax 508.664.5822

©RESTORATION is a registered trademark of EGI Exhibitions, Inc.

Brass, Nickel & Chrome Plating

Let us replate, polish, and lacquer your existing hardware back to its original beauty. Why remuddle with reproduction when we have the replacement hardware, registers, etc. to make your house original?

We also carry stair parts, doors, mantels, and windows.

Send \$10 for postage and a hinge or doorplate and we will send you a sample of our work.

Strassen Plating

3619 WALTON AVENUE, CLEVELAND, OH 44113
PHONE & FAX (216) 961-1525 9 A.M. TO 9 P.M.

WIDE FLOORING AND PANELING


OAK AND PINE: 8" to 26" wide

For easy installation of beautiful floors, Craftsman Lumber Company offers wide boards that are:

- Dried properly in our own kilns.
- Edges jointed straight and true.
- All boards meet, or exceed, NELMA specifications.
- 100% of order is usable when received. No defect allowance necessary.
- Knowledgeable advice and information on proper installation.
- Warranty on all products.


Wide boards from Craftsman Lumber Company have been satisfying architects, builders and homeowners nationwide since 1974. All our boards are created exactly to your specifications. Send \$2.00 for literature and grading photos, or phone Charles Thibeau at (508) 448-5621


The Craftsman Lumber Company
Box 222J, 436 Main Street
Groton, Massachusetts 01450



THE ORIGINAL TIN CEILINGS AND WALLS


- ✦ 26 Patterns available 2' x 8' & 2' x 4'
- ✦ Brass, copper and chrome plated
- ✦ Steel and pre-painted white
- ✦ Lay-in panels in 2' x 4' & 2' x 2'
- ✦ Stainless Steel for kitchen backsplashes
- ✦ 13-cornice styles ✦ Pre-cut miters
- ✦ Center medallions
- ✦ Send \$1 for brochure
- ✦ Call for technical assistance









aa-abbington affiliates, inc.

Dept. OHJ-AO, 2149 Utica Ave., Brooklyn NY 11234 718-258-8333 Fax: 338-2739



P.O. DRAWER 609, CARLISLE, PA 17013 DEPT. 203
Tel: (717) 243-0063




- Fretwork gingerbread and lots more for interior and exterior use; most complete line available.
- 19th Century designs recreated in solid oak and poplar from the world's leading manufacturer.
- Save with factory-to-you pricing.



Send \$5.00 for full color, 56-page product and design idea catalog.

ANTIQUE REPRODUCTION SHOWERHEAD



12-Inch Diameter

The most luxurious and soothing shower imaginable will be yours with this decorative 12-inch diameter Country French-style showerhead. A unique, self-contained reservoir neutralizes outlet water pressure and lets water fall rain-gentle through more than 450 openings in a pattern large enough to cover your entire body. The sensation can only be described as "incredible". Available in either polished brass or chrome reservoir with stainless faces. Installs to standard 1/2" piping quickly and easily with J.B. Adapter.

**JB Products, Inc., 500 N. Oakwood Rd.,
Lake Zurich, IL 60047 (847) 438-4141**
JB Products is a division of Arrow Pneumatics, Inc.

Hardware Restoration

Brass, Bronze, Nickel, Pewter

We are specialists in the restoration of antique metal hardware including doorknobs, backplates, hinges, window pulls and locks, lighting fixtures, and other decorative pieces.



Over 60 years experience
in restoring antique metal.

**127 GREEN BAY ROAD
WILMETTE, ILLINOIS 60091**

847.251.0187
FAX 847-251-0281

EMPORIUM Restoration Services

This classified section is available to designers, consultants, contractors, and craftspeople offering restoration services.

Architectural Millwork

MILLWORK DESIGNER/CONSULTANT—Specialize in designing high-quality ornate mouldings and paneling, ceilings, stairways. Familiar with all types of detailing products including plaster, composition, wood, polystyrene, metal, etc. Produce historically accurate designs as well as other traditional looks. Craig Sawyer Designs, Inc., 3837 13th Ave. W, #110, Seattle, WA 98119. (206)286-8443.

Architectural Services

ARCHITECTURAL SERVICES—Thoughtful and knowledgeable architectural preservation services that meet owners' needs and respect for their buildings: Brief consultations to full services—building evaluations, research, trouble-shooting, technical assistance, historic structure reports, architectural services for restoration, conservation and addition. The Office of Allen Charles Hill, AIA, Historic Preservation & Architecture, 25 Englewood Rd., Winchester, MA 01890-1303. (617) 729-0748.

Building Portraits

BUILDING PORTRAITS—Finely crafted watercolor facade drawings for your home or admired building taken from your photographs and/or drawings or plans. Contact: Robert J. Leanna II, 41 Green St., Newburyport, MA 01950. (508) 465-1095.

Masonry & Plaster

PLASTERING CONSULTANT—Let a 35-year master craftsman in plain and ornamental plastering walk you through a large or small job, from the first idea through successful completion. Don Smith, 476 Olivette Rd., Asheville, NC 28804. (704) 254-5191, best time to call, 5-10 p.m. E.S.T.

Painting & Color Schemes

THE COLOR PEOPLE—Our experience shows after 15 years and hundreds of buildings in 46 states. Others have copied our mail order service, but the beauty of our homes can't be duplicated. The Color People, 1522 Blake Street, #300, Denver, CO 80202. (800) 541-7174, fax (303) 534-4600.

DISTINCTIVE DESIGN—See the result before it's painted. Have an experienced, professional designer create a color scheme for your home's exterior. Detailed instructions for your painter. Enhance architectural details, avoid costly mistakes, escape indecision. Satisfaction guaranteed. Available nationwide by mail. 108 Cherry Street, Katohah, NY 10536. (800) 698-0063.

EXTERIOR DECORATOR—Add "Class," "Elegance," and "Style," using a color scheme and/or architectural embellishment to improve the character of your home or business. The Turning Point Woodworks, 1270 Grand Ave., St. Paul, MN 55105. (612) 698-4227 or fax (612) 698-7771.

Preservation Specialist

PRESERVATION CONSULTANT—Problems with your historic building? Consulting for homeowners, architects, contractors, and tradespeople on restoration of historic structures. Nationally recognized and frequent OHJ contributor. Provides practical and economical solutions. John Leeke, 26 Higgins St., Portland, ME 04103. (207) 773-2306.

Roofing

ANTIQUE ROOFING—Consulting slate & tile roof repairs, copper repair and fabrication, roof-related painting. Cedar shingles, ventilation for old roofs. Copper half-round gutters and down spouts. Will travel. Smith Slate & Tile Roofing. Chicago, IL (708) 239-0570.

"TIN ROOFING"—Incomparable in charm, beauty and longevity. Let us restore your roof with Follansbee Steel Terne ("tin"). Flat locked, soldered or standing seam. Vanguard Roofing Co. P.O. Box 387, South Bethlehem, NY 12161 (800) 426-9540.

Structural

STRUCTURAL RESTORATION—Specialists in structural member replacement to Colonial timberframe homes, barns, grist mills and log cabins. We provide 30 years experience in jacking, squaring, sill replacement, and interior and exterior restorations. Repair to structures damaged by natural disasters. Consulting services available nationwide. George Yonnone Restorations, RD 2 West Center Rd., West Stockbridge, MA 01266. Phone/fax (413) 232-7060.

STRUCTURAL REPAIRS—Structural repairs of barns, houses, garages, including leveling, straightening, jacking, cabling, foun-

dation, sill and beam repairs. Call Woodford Bros. Inc. for a prompt free estimate. 1-800-OLD-BARN, 1-800-653-2276. Serving the Northeast from Maine to Ohio.

STRUCTURAL AND ALL PHASES OF RESTORATION of historically significant wood timber buildings, using authentic timber and methods ensuring authentic replication of sills, posts, beams, joists, and rafters. For Historical Society references contact: Kenneth E. Earle, 84 Oak Hill Rd., Pascoag, RI, 02859. (888) ROM 6: 23-8 or (888) 766-6238.

Tin Ceilings & Walls

TIN CEILINGS AND WALLS—Large supply of new and used tin ceiling and wall panels. Will also do antique metalwork. 35 years experience. Brian Greer, Rt. 2, Petersburg, Ontario, CANADA, NOB 2H0, (519) 743-9710, fax (519) 570-1447, web site: <http://www.tin-ceilings.com>

Woodstripping

HONE WOODSTRIPPING AND REFINISHING, INC.—All architectural wood finishes expertly stripped and refinished, since 1983. New Jersey based; will travel. Free estimates, fully insured. Contact: Jack Hone, 5 Spring Lane, Warren, NJ 07059. (908) 647-7120.

WOOD FINISHING SERVICE—Master Finishing & Restoration Inc., specialists in all aspects of stripping, finishing, restoration, and/or conservation of architectural woodwork and furniture. Precise color matching. Intelligent and creative solutions for all your wood refinishing projects. No job too large. Boston-based; will travel. Wayne Towle, 178 Crescent Rd., Needham, MA 02194. Or call (617) 449-1313.

Rates are \$200 for the first 40 words, \$4.00 for each additional word. The deadline for inclusion is the 1st of the month 2 months prior to publication (January 1st for March/April issue). Submissions must be in writing and accompanied by a check. Mail to:

*Old-House Journal
Restoration Services
The Blackburn Tavern
2 Main Street
Gloucester, MA 01930*



Bird Control That Works!

Nixalite Stainless Steel Porcupine Wire

- It Works!
- Long Lasting
- Humane
- Inconspicuous
- Repels All Birds
- Easy To Install

Proven effective since 1950!

Ph: 800/624-1189

Fax: 800/624-1196

Web - <http://www.nixalite.com>

Nixalite®
of America Inc

1025 16th Ave OHJ

East Moline, IL 61244

309/755-8771 Fax: 309/755-0077

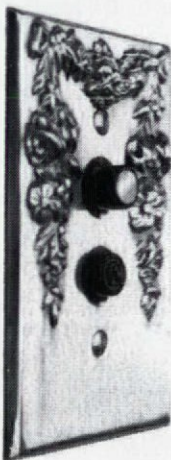


WOOD MANTLES
CAPITALS
BRACKETS
MEDALLIONS
PLASTER CORNICES
WOOD MOULDINGS
COMPOSITION & WOOD FIBER ORNAMENTS

Established 1893
DECORATORS SUPPLY CORPORATION
773/847-6300
3610 S. MORGAN ST. • CHICAGO, IL 60609

Push Button Light Switches

DIMMER & SINGLE & 3-WAY



SOLID BRASS
COVERS

- * DECORATIVE
- * PLAIN
- * CHROME
- * BROWN
- * IVORY
- * OAK

For Catalog Send \$1.50 to:

Classic Accents

P.O. Box 1181 • Dept. OH

Southgate, MI 48195

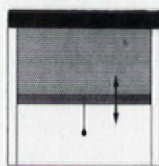
(313) 282-5525

FOR THE COMFORT & BEAUTY OF YOUR BUILDING

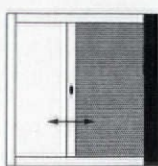
THE ROLL-UP HIDE-AWAY SCREEN

- ideal for French and sliding glass doors, pass through windows or any opening
- can be used both interior and exterior, operating horizontally or vertically
- rolls up to its own attractive housing, allowing easy passage through any opening
- rediscover the exterior views from within, without the obscurity of fixed screens
- when insect protection is desired, simply pull the screen closed
- when insect protection is not necessary, spring action rolls the screen away
- stays closed using durable, full-length magnets (door models)
- limits damage from ultraviolet rays in home or office

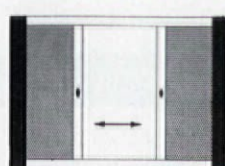
THREE TYPES OF INSTALLATIONS



ROLL-UP



SINGLE DOOR



DOUBLE DOOR

Dealer/Contractor Inquiries Invited

Pii_{nc}

PETIT INDUSTRIES Inc

P.O. Box 1156 • Saco, ME 04072-1156

Tel: (207) 283-1900 • Fax: (207) 283-1905

Something For Everyone.



At WOODHOUSE, we authentically reclaim and recycle antique timbers of Heart Pine, Yellow Pine, Oak, Chestnut, and many other woods to create the most beautiful flooring you'll find anywhere, and all at affordable prices. Call today and let us bring the wood you love into your home with our Antique Country Plank Flooring.



Antique Heart Pine



Antique Yellow Pine



Antique Oak

FREE
Brochure

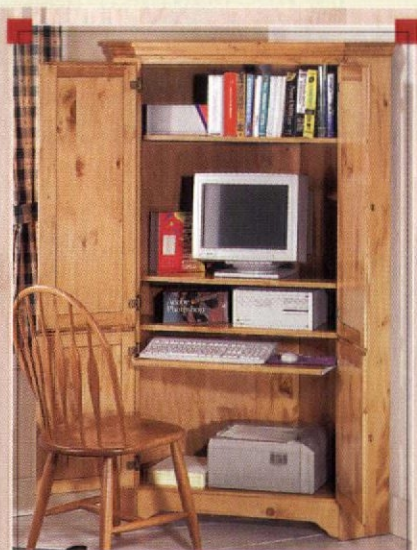


Sample Kit
\$15

The Home of Quality and Value

Dept. OH • P.O. Box 7336 • Rocky Mount, NC 27804

919/977-7336



Corner-fit Computer Center is just one example of all the New England crafted home furniture you'll find in our catalog. Customize your work space with our Desks, Work Centers, Barristers, Files and more.

Call or write for your
FREE CATALOG.
1-800-659-0206
ask for Dept. YH267

Yield House
P.O. 2525, Dept. YH267, Conway, NH 03818

EMPORIUM For Sale (continued)

dition. Photo by request. \$7,000 or best offer. (408) 637-8046.

BATHTUB — Ball-and-claw, 5' cast-iron tub in good condition. \$650. Call Ron, (207) 324-8284. Leave message.

PIANO — Early 1900s upright Ivers and Ponds piano with bench, manufactured in Boston, needs only minor repairs (have estimate), located in central NY State, \$200 or best offer. (717) 389-1176.

RADIATORS — Cast iron radiators. Various sizes. Located in central New Jersey, (609) 758-7664.

Events

MORRISTOWN, NJ — Victorian house tour, Sunday, May 18 from noon-5 p.m. Tickets will include an "English tea party." Tour starts at the Kellogg Club's Colles Mansion, 25 Colles Ave. Proceeds benefit the ongoing restoration of the historic Colles Mansion. (201) 984-5215.

ROCKLAND COUNTY, NY — Rockland County Executives' Historic Preservation Merit Awards, Country Supper and Dance, May 18, 4 p.m. at the historic Jacob Blauvelt House, Historical Society of Rockland County, NY. 1997 winners will be honored. \$45. (914) 634-9629

JOLIET, IL — This Olde Housewalk, Sunday, June 22, Joliet, IL, from 1-5 p.m. Explore one of Joliet's oldest National Register neighborhoods, featuring six vintage homes, horse and buggy rides, musical entertainment, antique cars, refreshments, porch lunches (by reservation only). Advance tickets \$8, \$10 at door. For reservations and information, contact Alice Kraus, (815) 722-3068.

KENOSHA, WI — "Restoration Faire" at the Kemper Center, May 17. Sponsored by ABATRON Inc., the Preservation Week event features topics relevant to residential building restoration. Architects, designers, and contractors will speak on stone, masonry, and terra cotta restoration, wood restoration, late-19th and early-20th-century wall coverings and color schemes, and residential gardens. Registration is \$8 and includes a box lunch. Seating is limited. To register, contact ABATRON at (800) 445-1754.

MECHANICSBURG, PA — Designers Showhouse '97 at Ashcombe, Harrisburg Symphony Society. May 18-June 8. Experience the elegance of a Victorian mansion transformed by more than 60

designers and landscapers. House tour tickets are \$10 in advance, \$12 at door. Call (717) 238-8588.

ST. LOUIS, MO — The 12th Annual St. Louis Antiques Show, benefitting the Repertory Theatre of St. Louis. Washington University Athletic Complex, Forsyth and Big Bend boulevards. Fine antiques offered by 39 outstanding dealers from across the nation. Gala Preview Party; Thursday, May 8, with guest Lecturers Lady Henrietta Spencer Churchill, internationally renowned interior designer and author; and Richard E. Slavin III, Archivist/Historian, the Schumacher Archives, Friday, May 9. Show admission \$10. Call (314) 968-3032.

FISHERSVILLE, VA — 20th Shenandoah Antiques Expo. Over 400 dealers. Friday, 10 a.m.-5 p.m., Saturday 8 a.m.-5 p.m., Sunday 9 a.m.-5 p.m. Augusta Expoland, I-64, Exit 91. Near Waynesboro. Fee. Call (804) 846-7452.

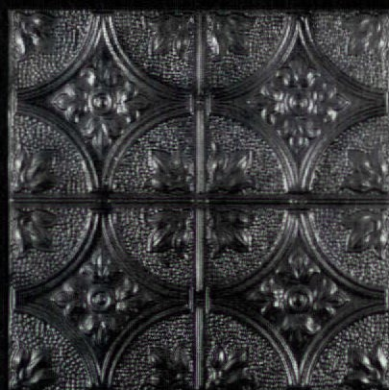
DUBUQUE, IA — 10th Annual Dubuquefest House Tour sponsored by the Old House Enthusiasts Club. Narrated tour of five of Dubuque's splendid stock of older homes. View excellent displays of restoration, creative decorating, and art. May 17-18, 10 a.m.-5 p.m. Admission \$8. for adults; children under 12 free. Includes shuttle bus service to each home. Call (319) 556-8668.

CINCINNATI, OH — May 4-31. "The Ultimate Showhouse," a designer showhouse featuring an Italianate stone mansion built ca. 1896. Nearly 30 interior designers and landscape designers transform the mansion in a project to benefit AIDS Volunteers of Cincinnati and the John S. Chesteen F.A.S.I.D. Memorial Fund. Call (514) 321-5915.

Classified ads in The Emporium are FREE to current subscribers for one-of-a-kind or non-commercial items, including personal house or property sales. Free ads are limited to a maximum of 40 words. Free ads and b&w photos are printed on a space available basis. For paid ads (real estate through agents, books & publications, etc.), rates are \$150 for the first 40 words, \$2 for each additional word, \$95 for a photograph. Deadline is the 1st of the month, two months prior to publication. For example: March 1 for the May/June issue. All submissions must be in writing and accompanied by a current mailing label for free ads, or a check for paid ads.

Old-House Journal
Attn: Emporium Editor
2 Main Street, Gloucester, MA 01930

Bring Back The 1890s In The 1990s



TIN CEILINGS

ORIGINAL DESIGNS VICTORIAN-ART DECO

Send \$1.00 for Catalog to:

CHELSEA DECORATIVE METAL CO.

9603 Moonlight, Dept. 0

Houston, Texas 77096

PH 713-721-9200 FAX 713-776-8661

WEB SITE: THETINMAN.com

2' x 4' Sheets for Easy Handling

Shipped Anywhere

VENTINOX Liners Save Chimneys!

...and provide safe, reliable venting for gas, oil and wood.

- **Restores** deteriorated chimneys
- **Preserves** aesthetic appearance
- **Protects** against harmful flue gases
- **Improves** chimney performance

Complete lining systems for all types of heating appliances & fireplaces.

Call today for
FREE information!
518-463-7284

ProTech Systems, Inc.
26 Gansevoort St., Albany, NY 12202
Leaders In Chimney Technology

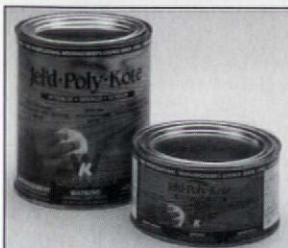
ASK WOOD-KOTE

POLYURETHANE MADE EASY

Q: My hobby is restoring old radios from the 1930's and 40's. I often use your Jel'd Stain on the cabinets to match the original finish colors. Do you recommend that I use lacquer as the "top coat" after the wood is stained?

H. Steiner, Phoenix, AZ

A: Lacquer certainly should be considered. However, Wood Kote has recently introduced a new wipe-on polyurethane, **Jel'd Poly Kote™**. This product has been very well received by professional woodworkers and hobbyists alike for smaller projects. **Jel'd Poly Kote™** combines the protection of polyurethane with the wipe-on convenience of Wood Kote Jel'd Stain™. This



Wipe-on finish can simply be applied with a soft cloth without any runs, drips or bubbles. It can be re-coated in one to two hours without any sanding between coats. Up to six coats can be applied in a single day. People who live in condominiums or apartments will especially appreciate **Jel'd Poly Kote's** low odor and easy clean-up. Please keep in mind that this convenient wipe-on finish is a low build product, so it should not be used on furniture that is exposed to a lot of wear and tear like table tops. It will, however, provide a beautiful satin finish for your smaller projects.

Have a staining or finishing question? Ask Wood-Kote!
Please write to Dept. Q.
P.O. Box 17192
Portland, OR 97217
or Fax to (503) 285-8374
<http://www.woodkote.com>



**"The Professional
Woodworker's
Choice Since
1945"**

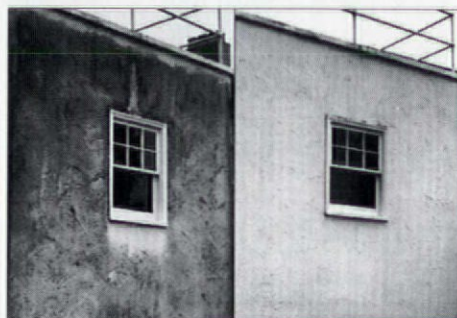
**ASK FOR WOOD-KOTE PRODUCTS
AT PAINT STORES, HARDWARE STORES AND HOME CENTERS.**

"We were astounded when the mildew and mold disappeared before our eyes."

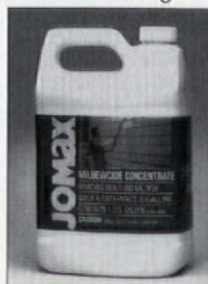
— Carol N., Baton Rouge

Concentrated Jomax® removes ugly stains and kills mildew. One quart makes five gallons — you save up to 80% of the cost of other cleaners.

Jomax destroys mildew on contact. Won't discolor paint or harm washable surfaces like other products. No annoying fumes or damage to plants.



Jomax finished this job in under half an hour.



Just mix Jomax with water and bleach, spray and rinse away mildew stains without scrubbing.

THOUSANDS OF SATISFIED USERS. "Thank you for a great product." "Fantastic ... far superior to plain bleach" "Made a tough job a lot easier." "Lasts longer than anything else."

For a free brochure and a Jomax dealer near you, call 1-800-898-6794.

JOMAX is a registered trademark of Zehrung Corporation

ZEHRUNG

The Elegance of Old World Stone Carving!

Call or write for your color
catalog today.



FIRESIDE MAGIC

301 Pleasant Drive • Dallas, TX 75217
(214) 398-1299 • Fax: (214) 398-1293

Formerly the manufacturer of
Stone Magic.

Factory Direct Pricing.
Other Cast Stone Products
Available.

EMPORIUM Real Estate (continued)

system. \$129,500. (914) 255-1523

RURAL RETREAT, VA — Old farmhouse with 5 bdrms, 2 baths, formal dining rm., parlor, large porch, outbuildings, original woodwork, updated kitchen/baths, newly painted, views, garden, new gas furnace, two extra lots, scenic little town. Close to I-81, \$130,000. (206) 473-4044

MINERAL POINT, WI — Two-storey 1856 side-gable Cornish stone house. Completely restored, with 3 bdrms, living rm., kitchen, bath, original white pine stairs and floors upstairs, exterior porch faces English cottage garden. Historic amenities. Owner. Description with photos, (608) 987-3387.

For Rent

OREGON COAST — Fabulous oceanview retreat, 2 bdrm, 2 bath, fully equipped, pool, spa, golf. Summer rates: \$125/night, 2-night minimum or \$750/week, \$2,000/month. Brochure available. Call Dave or Patti Schnur, (503) 239-7457.

Wanted

FENCE — 150 ft. of ornamental wrought iron fence, ca. 1900 w/gate and end posts. (719) 473-8814 or fax to (719) 471-2599.

PAIR OF BUSTS — Queen Victoria and Prince Albert, three-quarter to life size. Send photo and price to: J. Burgess, 2218 E. 11th St., Davenport, IA 52803.

For Sale

DEEN RAG RUG LOOM — "Four Harness Automatic Flying Shuttle," complete with manual, 6 shuttles, shuttle-filling machine, 24-capacity spool rack. Also

manual shuttle, threader, crank. Works great, you move, \$450. (716) 652-5445 or Francis, PO Box 306, E. Aurora, NY 14052.

VICTORIAN POOL TABLES — Selling a collection of 14 rare pool tables. 8' and 9', completely restored, delivered anywhere in the U.S. Please contact Mark Stellinga, 416 Sierra Trail, Coralville, IA 52241, (319) 354-7287.

STOVE & TUB — Crawford gas range 16-142r and 5' clawfoot tub in very good condition. Boston area. Reasonable offers. (617) 646-1404

MEXICAN DOORS — Pair of 100+ year-old Mexican doors, each 8' x 3' with five horizontal rows of four carved birds and metal bulls eyes between. Supported by 2x4 frame. No hardware. Best offer. Pictures available, (334) 874-3094.

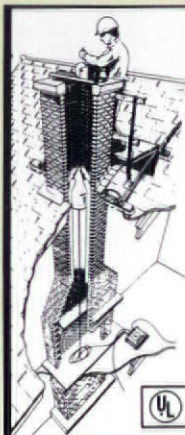
PORTICO — Classical entry portico with four wooden columns and window frames, including twice frames. Call (315) 337-5559.

BROWNSTONE — Original brownstone lintel and pavers, 14.5" x 14.5" and various other sizes. Mike Jaskwich, P.O. Box 3977, Greenville, SC 29608, (864) 232-7697.

COLLECTIBLES — Eastlake double bed, walnut/ash kitchen table, Sears 3-burner, kitchen cabinet doors (maple), old house bits and pieces, handmade carpenter tools, etc. SASE for long list. Leistikow, 2779 Bay Settlement Rd., Green Bay, WI 54311.

BATHTUB — Ca. 1890, cast-iron clawfoot tub, interior glazing in very good condition. \$200. New Jersey area. (908) 813-9522

ROUND OAK TABLE — 60" top with winged Griffin pedestal base made by Hastings Furniture Co. Opens to just over 10' with six leaves. Excellent con-



AHRENS

Relines/Restores
Masonry Chimneys

With The ONLY Listed Two-Liner Cast-In-Place Masonry Process

- First insulates and strengthens
- Second seals and protects
- Both are immune to acids and moisture
- No guess work. Mechanically applied

- No exterior alterations.
- No metal to corrode.
- Improves heating efficiency — All for a fraction of the cost of rebuilding!

AHRENS
chimney
technique

UL LISTED

Dealership network nationwide.
Call or write for more information:

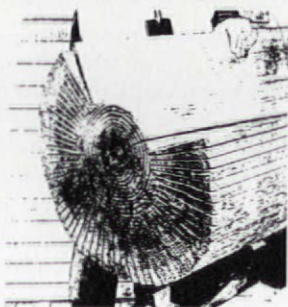
2000 Industrial Ave.
Sioux Falls, SD 57104

1-800-843-4417



The Ward Quartersawn Clapboard

*Authentically Produced
Early American Clapboards*



Over 100 years of continuous operation by the Ward family. Quartersawing produces a vertical grain which eliminates warping and accepts paint and stain easily for extended life and beauty. Spruce and pine. Widths from 4-1/2" to 6-1/2". Pre-staining available.

Ward Clapboard Mill

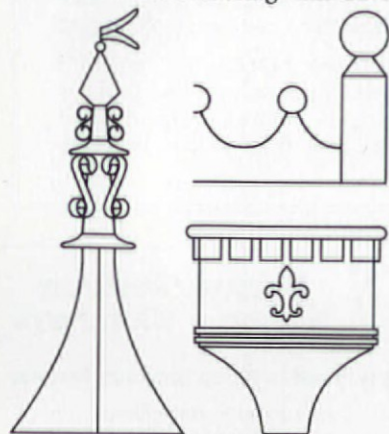
P.O. Box 1030
Waitsfield, VT 05673

Moretown, Vermont Patten, Maine
(802) 496-3581 (207) 528-2933

Fax 802-496-3294

Handcrafted Copper Roof Ornaments

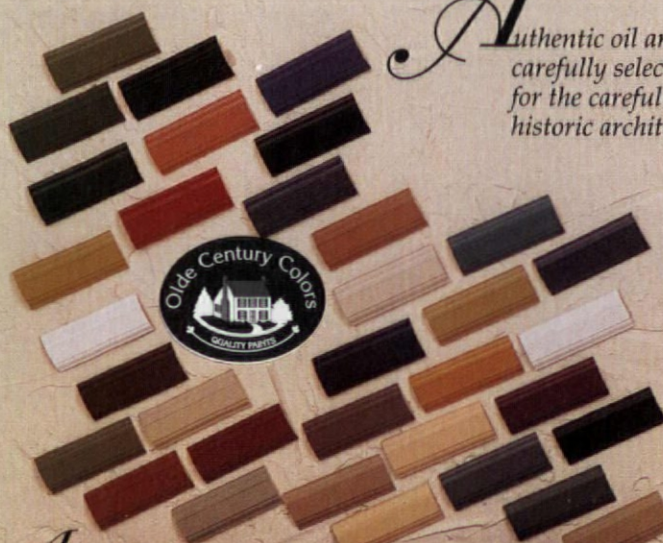
- ♣ Ridge Cresting
- ♣ Weathervanes
- ♣ Copper Cornice
- ♣ Finials
- ♣ Cupolas
- ♣ Leader Boxes
- ♣ Roof Vents & Plumbing Vent Covers



A unique selection of copper ornaments ready to install or customized to your needs. Catalog \$3, refundable with your first order.

VULCAN SUPPLY CORP.

P.O. Box 100 Westford, Vermont 05494



*Authentic oil and acrylic paint
carefully selected by curators
for the careful restoration of
historic architecture.*

And... 17 simulated milk paint colors.



Literature at \$3.00, available through:

Primrose Distributing

54445 Rose Road South Bend, IN 46628 (800) 222-3092

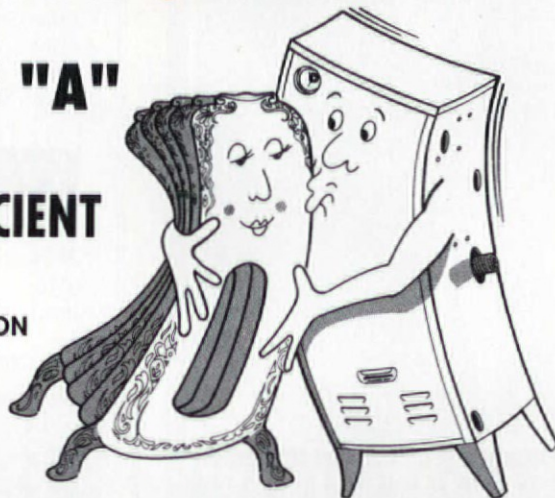
GlowCore♥Radiators

The NEW
GB SERIES "A"
GAS BOILER

92% EFFICIENT

FEATURES

- SEALED COMBUSTION
- COMPACT CABINET
- SHOCK PROOF
- CPVC VENT
- LOW NOX



NEW! HIGH EFFICIENCY HEATING FOR VINTAGE HOMES

Sometimes the only cost effective way to save fuel in the older home, is to burn less of it. Clearly, the ultra high efficiency boiler is the answer!



We are proud to be
charter members of
the EPA Energy
Star Program

GlowCore
High Efficiency Heating
Call Today! 1-800-676-4546

The Beauty Of Recycling™

*Authentic Ready-Laid™
American Plank Flooring
brings out the lasting beauty
in hundred-year-old
Antique Heart Pine timbers.*

*For a look that's elegantly
formal, simply country
or somewhere in-between,
our flooring is sure to
enhance the warmth and
beauty of your home.*

- Little or no sanding needed.
- Easy installation.
- Packaged in nested bundles for easy handling.

Call for a FREE portfolio & price list,
or a Sample Kit of our fine woods
(the Kit is \$15, refundable with your
first order). Credit cards accepted.

**THE
JOINERY CO.**
Antique Heart Pine Flooring

Dept. OH • PO Box 518 • Tarboro, NC 27886

(800) 726-7463

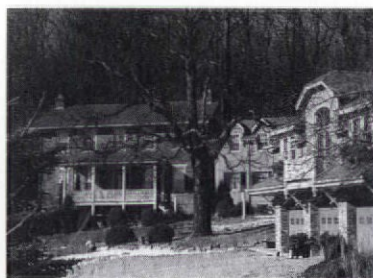
TEMPORIUM Real Estate (continued)

complete with a dam/pump house. Both were constructed in the 1930s of steel and concrete with slate roofs. Main house has slate tile and parquet floors. Additional 1830s immaculately restored and maintained farm home with barns included on this 135-acre picturesque, diverse estate with woods and tillable land. In a world of your own and yet close to main routes and entertainment. Use as a residence or retreat. Subdivision possible. \$2,500,000. Open to offers!! Call Kim More, RE/MAX Quality Realty, (419) 663-3536, ext. 315.

ALLENTOWN, PA — Restored Victorian brick single on National Register. Fourteen rms, 2 baths, pocket doors, colored glass, marble, walnut cabinets, oak stairs and woodwork, 3 ornamental frplcs., central a/c, 2-car garage, corner 3/4 acre, fence, wraparound porch. Call (610) 435-6920.

ENDEAVOR, PA — 1920s home, Allegheny Nat'l Forest, 3,100 sq. ft., 5 bdrms, 2 1/2 baths, modern kitchen, attic, basement, porch, deck, outbldgs on 3+ acres, on creek. B&B professional use. Possible separate rental cottage. \$129,000. Call (814) 463-3714.

ERIE, PA — 1923 Alden & Harlow brick duo Colonial, 1.4 landscaped/wooded acres, 3,600+ sq. ft. Slate roof, arched lean-to porch, bi-level terrace, 4 frplcs., 4 bdrms, 3 1/2 baths, hardwood floors, mahogany trim, French doors, gourmet kitchen, luxury master bath. \$425,000. Call (814) 866-5898.



SEWICKLEY, PA — Completely restored 1860s brick center-hall, Pennsylvania farm house. Three wood-burning frplcs., hardwood floors, new heat, electrical, and plumbing. Carriage house with 3-stall garage, 38 acres, very private. Ten minutes to interstate, 20 minutes to downtown Pittsburgh. \$795,000. Call (412) 364-1612.

GRANDVIEW, TX — 1894 two-storey Prairie Victorian, 2,800 sq. ft., 3 bdrms, 1 bath, with carport on oversized, 100x35



corner lot. Exterior and downstairs completely restored, original fretwork, 2 frplcs, mantels, crown moulding, bulls-eye moulding, wainscoting, custom window treatments. Kitchen updates feature custom, period glass-fronted cabinetry, maple countertops, Kohler fixtures. Bathroom features clawfoot tub and pedestal sink. 675 sq. ft. of covered porches. Privacy and picket fences. Incredible landscaping includes many gardens and potting shed. Small-town schools rate among tops in Texas. \$77,500. Call (816) 930-3063.

SMITHFIELD, UTAH — Very large dairy barn built in 1914, excellent shape. Hay loft and storage, milking and feeding rms. Jackson Fork with tract, cables and pulleys. \$20,000 or best offer. For information send SASE to: Old Barn, 67 South, 100 East, Smithfield, UT 84335.



SHENANDOAH VALLEY, VA — Rare opportunity for serious preservationist. Major historic 1762 German stone house with long frontage on Shenandoah River near Strasburg. Never restored. Significant Civil War associations. 124 acres. National Register eligible; VA income tax credit available for restoration. Principals only. Write: 4015 N. Abingdon St., Arlington, VA 22207.

POULTNEY, VT — Ca. 1860 2-storey brick/frame with Victorian details. Wrap-around porch, slate roof, 65x190 well-located lot in college town. Original woodwork including wide pine floors, faux bois and 6-panel doors. Nine rms. of flexible space. Exposed pegged beams, cathedral pine ceiling in kitchen. Large carriage barn. New paint and heating

EMPORIUM

Catalogs • Products and Services



For Sale/Swap • Real Estate • Events

Real Estate

EUREKA SPRINGS, AR — Landmark 1881 Victorian on National Register in the Ozarks. Operating B&B. Three storeys, 4 guest areas with private baths and Jacuzzis, 2 with fireplaces. Owner's quarters, garage. Great mountain views. Largely turnkey, remodeled. \$343,000. (501) 253-6022

RECTOR, AR — 1905 Queen Anne/Colonial Revival in quaint, small town 40 miles from university city of 50,000. Three bdrms, 2 baths, 11' beaded ceilings, hardwood floors, pocket doors, foyer columns, clawfoot tub. Sizable outbuilding. Low taxes. \$45,000. (501) 595-3350

KENDALLVILLE, IN — 1928 Georgian Colonial Mansion, B&B with 6 bdrms, 6 1/2 baths, open circular stairway, 20 rooms, 8,600 sq. ft., 4 frpls, plus detached apartment. Most furnishings included. \$279,000. Call Barb Rinard, Four Seasons Realty, (800) 800-7234.

EUREKA, KS — Wichita only one hour away. 2,991 sq. ft., excellent foundation and full basement. New roof, insulated, hot-water heat, fireplace, clean walls, 13 large rooms. Corner lot 150' x 150', 6' chain link fence. \$55,000. Call Valena, (316) 394-2282.



IPSWICH, MA — Dignified antique Federal, ca. 1790. Unspoiled patina of age. High ceilings, balanced, symmetrical rms, frpls, antique barn. Evocative basement "keeping room." Legal two-family. Stable neighborhood of historic homes. Walk to stores. Train to Boston. \$269,000. (508) 468-4824.

LEXINGTON, MA — Capt. Reed House, 1740. Fully restored with fine, ca. 1820 Federal overlay. Convenient to Rte. 128, Lexington center, schools, etc. Au pair, office

or in-law suite on first floor. Asking \$434,500. Call (617) 729-7623 for floor plans and information.



WOBURN, MA — 1830 Georgian Colonial mansion, strong history, 12 miles north of Boston, special zoning allows residential, office, apartment or all three uses, 2/3 acre. 7,000 sq. ft. building space, frpls. original details, \$450,000. Owner, (617) 933-7188.

WEST NEWFIELD, ME — Eleven rms, 2 baths, working frpls, many original features, modern systems on 68 surveyed acres on country paved road. Gardens, pond, views. 42x44 barn with woodshed ell. Good condition. Two hours to Boston. \$220,000. John Koenig, (207) 793-2059.

NEBRASKA CITY, NE — Was "Mrs. Bickel's Boarding House," 3,000+ sq. ft. Built 1868, enlarged 1917 by the family. Complete renovation 1996. Brick 2 storey, wraparound front porch, large back porch, 4 bdrms, 2 1/2 baths, DR, entry, parlor, new "old" kitchen, family rm, older but good HVAC, new roof, wiring and plumbing, wallpaper. 20x30 carriage house, living quarters above, corner 1 1/2 lots, next door to historic district. Good B&B or family home. \$140,000. (402) 873-5925 or (402) 873-9231.

GHEENT, NY — Swiss general-built 12-room, 1874 Italianate with 12' ceilings, 2 fireplaces, floor-to-ceiling windows, leaded glass. Plus 3,000 sq. ft. carriage house with guest quarters on 23 acres. Two hours to Manhattan. Contact Wil Guzman, (212) 410-4042.

OXFORD, NY — 1853 Greek Revival with curved stairway, 4 bdrms, large LR and DR, parlor, den, 2 full baths. Mostly restored;



all systems new with 3-zone heat. Fireplace, lovely porches, original woodwork and flooring, built-ins, large rooms. Carriage house, barn, .3+ acre in scenic upstate village. Great landscaping potential. \$72,500. Dex, (607) 843-9067.

LANCASTER, OH — Restored Eastlake Victorian in historic downtown. Four bdrm, 2

1/2 baths with 2 impressive staircases, state-of-the-art kitchen, 7 frpls, raised paneling, library, garden house, water garden, original interior shutters and hardware, heart pine. Completely updated services, 2 furnaces and central a/c. Year-round third-story art studio. Churches and

school within walking distance. Easy commute and access to Columbus. \$359,000. Call (614) 654-1158.



MILAN, OH — In the heart of Ohio's vacation land is the most unique home in the area. Designed by Pittsburgh architect William Young. Featuring a 9,800 sq. ft. Bucks County-style fieldstone mansion

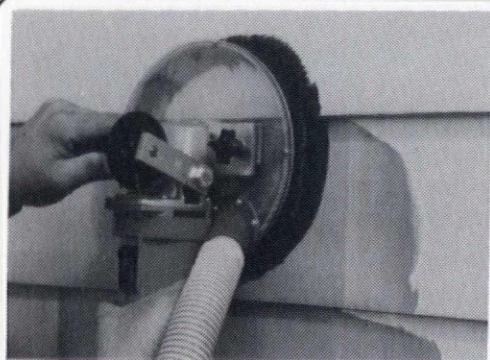
In This Section

Real Estate.....	73
For Sale.....	76
Wanted.....	76
Events.....	78
Restoration Services.....	80
Products Network.....	84
Advertisers' Index.....	94

We Can Solve Your Paint Removal Problems!

PAINT SHAVER™

**The Most Effective, Efficient and Ecologically Safe
Paint Stripping System Available Today for
Cracking and Peeling Paint on Shingles and Clapboards**

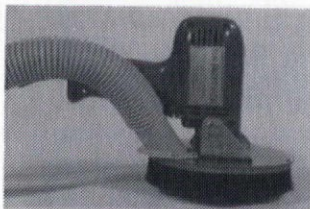


Paint Shaver with Dust Collector Accessory

- Strips one square foot of paint in 15 seconds,
- Retrieves stripped debris into vacuum systems.
Can also be used for lead paint removal.
- Eliminates the need for chemicals, sandblasting or heat removal.

SANDER VAC™

Dust-free sanding for all surfaces indoor and out.

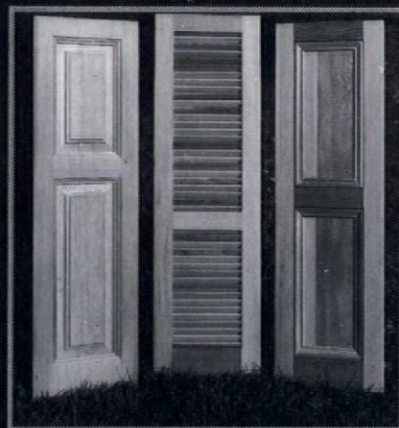


**AMERICAN INTERNATIONAL
TOOL INDUSTRIES, INC.**

1140 Reservoir Ave. Suite L01
Cranston, Rhode Island 02920
(401) 942-7855

1-800-932-5872

Hand-crafted Shutters



Whether you have a 250 year old stone colonial, a vintage farm house or one of today's historical reproductions, you can give your home a truly distinctive look with Timberlane's authentic shutters.

Hand-crafted in historic Bucks County, Pennsylvania, from kiln-dried western red cedar. Timberlane offers you over 18 shutter styles as well as a full hardware line; enough to satisfy even the most discriminating homeowner.



**TIMBERLANE
WOODCRAFTERS INC.**

Call for our FREE (800) 250-2221
Color Brochure
Web Site: <http://www.timberlane-wood.com>
Dealer inquiries welcome!



Quartersawn Clapboard Siding and Building Materials

including Wide Pine and Hardwood Flooring

Quartersawing

produces a vertical grain clapboard.

- Twists and warps less
- Wears more evenly
- Bonds paint and stain better

Also featuring,

Olympic Machinecoat™ Exterior Pre-Finish for all types of siding.

Allows finishing prior to installation
with 15 year warranty:

- Crack, peel and Flake Resistant
- Washable without damaging finish
- Non-Yellowing

Granville Manufacturing

Company, Inc. • Established 1857

Granville, Vermont 05747

Call or write for free brochure

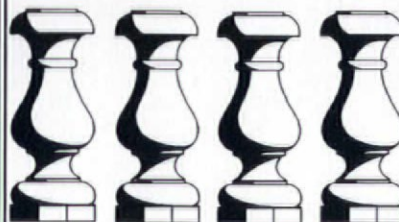
TEL: 802-757-4747 FAX: 802-767-3107

E-Mail: woodsiding@madriver.com WEB SITE: www.woodsiding.com

CUSTOM WOOD TURNINGS

- Hand rail & fittings
- Balusters
- Newel posts
- Porch posts
- Columns
- Fluting
- Spiral rope twist
- Finials
- Furniture parts

No minimum order
Shipment coordination
Send \$5.50 for catalog

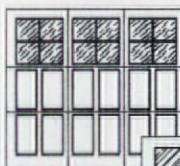


156 Main St., P.O. Box 338
Ivoryton, CT 06442

(860) 767-3236 Fax (860) 767-3238

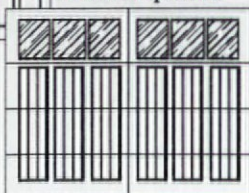
DESIGNER DOORS™

CUSTOM DESIGNED
VINTAGE GARAGE DOORS



Patented Construction
Methods to replicate
vintage door looks
with automatic
overhead operation

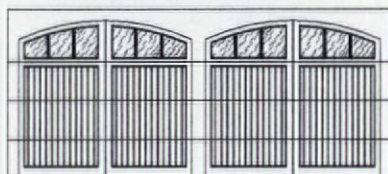
Top
Quality
Woods



CONTACT:

DESIGNER DOORS, INC.

283 TROY STREET
RIVER FALLS, WI 54022
1-(800)-241-0525



Locations in
MINNEAPOLIS • CHICAGO • BOSTON • ATLANTA
Available Nationwide

Doors that will open your eyes!

VICTORIAN & CONTEMPORARY WHIRLPOOL BATHTUBS



100 % Cast-Acrylic
5-year Warranty
20 Styles 60 Colors
Solids, Marbles & Granites
Heavy Duty 1-hp Motors
Package Discounts

Other Victorian-style Bathroom Products

Acrylic Drop-in Sinks



Handshower & Lav Faucets



Acrylic Shower Bases



For 35-page catalogue of products, sizes, prices & color chart send \$15 to:

NORTHSTAR ACRYLIC DESIGNS

P.O. Box 370350 Denver, Co. 80237 (888) 225-8827 (303) 337-0688 Fax (303) 337-2288

Designed by the ages. Crafted by hand.

Fischer & Jirouch has been hand-crafting plaster ornaments by the same methods for nearly 100 years. We use only traditional plaster in replicas of our 1,500 designs from a variety of periods. Architects, tradespeople, and do-it-yourselfers rely on our pieces to enhance their exterior and interior projects. We also offer custom reproduction.



Hand-crafted Fischer & Jirouch ornaments are as easy to work with as wood and authentic throughout. Send for our 144-page catalog (\$10 US, \$15 Canadian).

No credit cards.

We ship UPS only (no P.O. boxes).

Canadian orders in U.S. dollars.

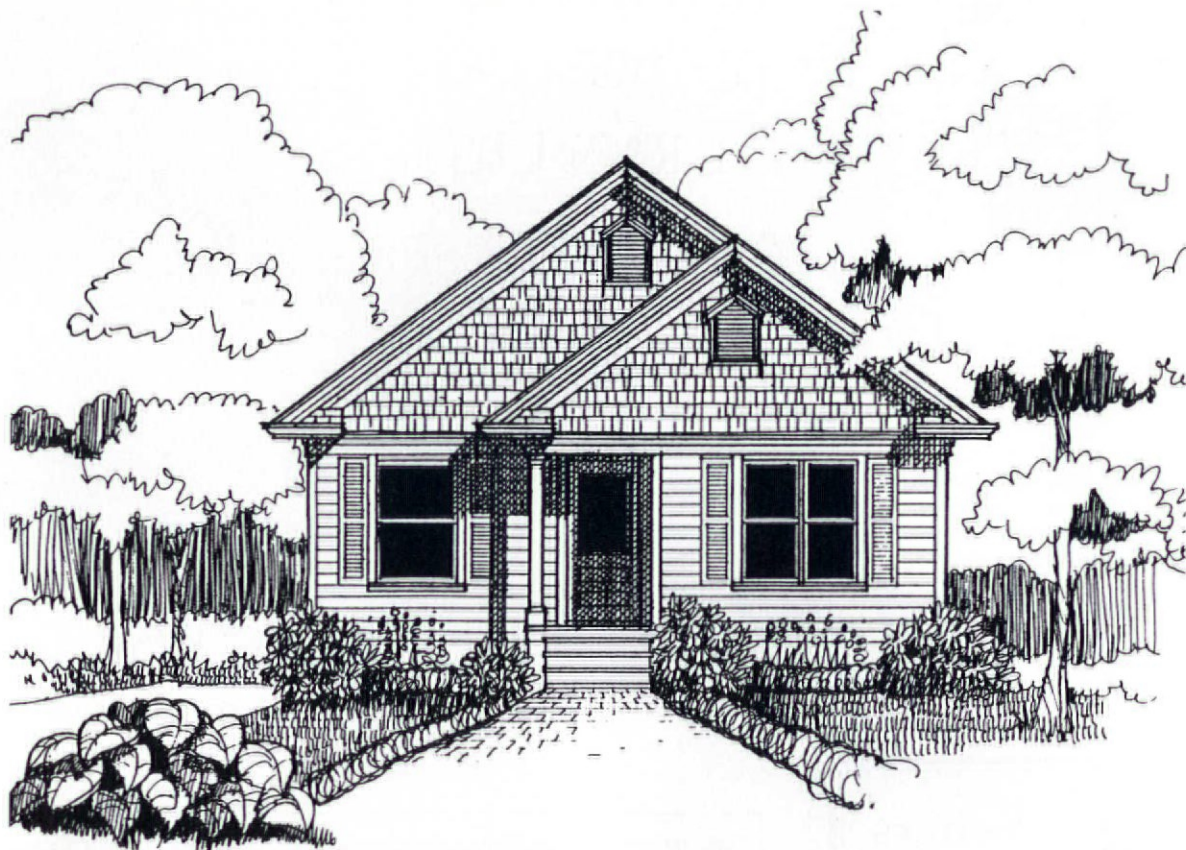


THE FISCHER & JIROUCH CO.

4821 Superior Ave. • Cleveland, Ohio 44103

Tel. (216) 361-3840 FAX (216) 361-0650

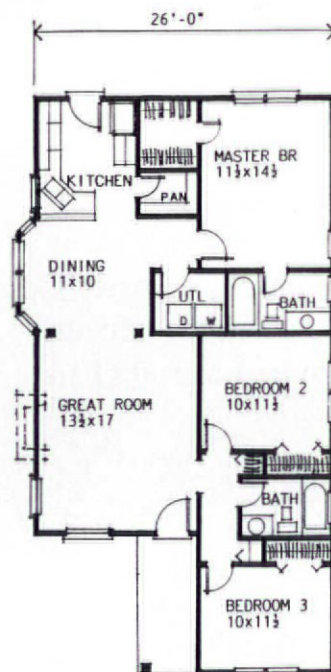
BUILDERS' BUNGALOWS



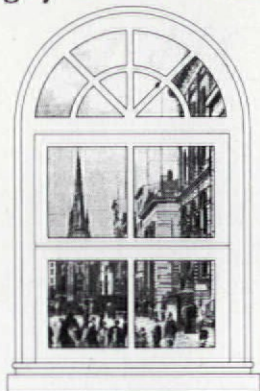
THESE COMPACT BUNGALOWS COULD EASILY HAVE COME FROM AN early-20th-century, mail-order house plan. Pedimented gables and porches add architectural interest to this vernacular housing form, typical of neighborhoods from the Carolinas to California. The practical floor scheme combines three bedrooms, two full baths, kitchen, great room, and dining room. Choose elevation "A" for the gabled-roof version, or elevation "B" for the hipped-roof plan.

Plan RT-07-PV

Cost	\$170
Set of 5	\$230
Set of 8	\$270
Bedrooms	3
Bathrooms	2
Square Footage	1,144'
Ceiling Height	8½'
Overall Dimensions	
Width	26'
Depth	50'



**Restoration Glass will
change your view of history.**



Why are architects specifying authentic Restoration Glass™? Because it's *imperfect*.

Each sheet is made by craftsmen, using the original cylinder method. Yet this glass easily meets today's building codes. And it's available in two levels of distortion.

Once you've seen the difference Restoration Glass makes, no true restoration will look authentic without it.

For details call toll-free 800-221-7379.

In New Jersey: 201-471-1733.

Fax: 201-471-3475.

S.A. Bendheim Co., Inc.

61 Willett Street

Passaic, NJ 07055.

Bendheim



**NO MATTER
HOW WELL YOUR
RESTORATION
TURNS OUT,**



WE CAN TOP IT.

With Capstone®, the newest premium laminated shingle from Elk. Offered in three versatile color blends, Capstone has earned wind resistant and Class "A" fire ratings from Underwriters Laboratories. And we back it with our Umbrella Coverage® — a thirty-year limited warranty.*

Capstone's mottled color and slate-like Impression will lend *character* to your carefully-restored jewel. And what ordinary shingle can do that? Call your local contractor, call 800-650-0355, or visit our web site at www.elkcorp.com for details.

ELK
Premium Roofing

CAPSTONE®

*Warranties are available upon request or by writing Elk.

©1997, Elk Corporation of Dallas. All trademarks © are registered trademarks of Elk Corporation of Dallas, an Elk Company. Underwriters Laboratories is a registered trademark of Underwriters Laboratories, Inc.

Plaster Washers



*Now you can save and restore
your plaster ceilings and walls
for just pennies.*



**Charles St. Supply Co.
54 Charles Street
Boston Ma. 02114**



Call: (617) 367-9046
or toll free (800) 382-4360

Fax: (617) 367-0682

Volume Discounts
Next day delivery available
All major credit cards accepted
10 doz. for \$10 — 21 doz. for \$20
Complete starter kits \$15.00 & up.
(plus S&H, UPS)

IRON ART

Acorn introduces a "smoke'n" new line of hand forged ornamental door, cabinet and bath hardware - Iron Art door knockers, door knobs and handles.

To get your hands on these unique and beautiful hardware accessories call **1-800-835-0121** today for the Acorn Iron Art catalog of products.



P.O. Box 31
Mansfield, MA 02048
508-339-4500



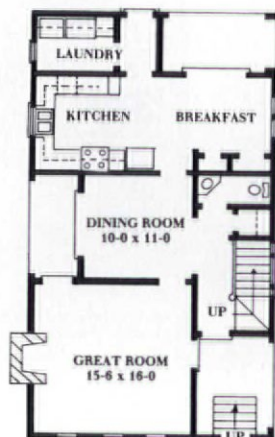
CHARLESTON SIDEHOUSE

**Best
Seller!**

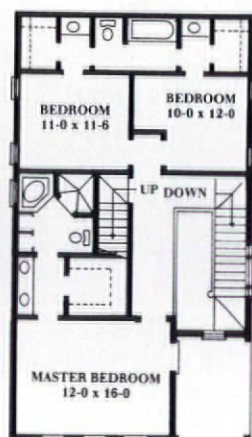


THIS FEDERAL-STYLE ROW HOUSE DRAWS ITS inspiration from the elegant side-houses of Charleston's South of Broad neighborhood. The distinctive side entry layout is the result of rotating the house so that the gable end faces the

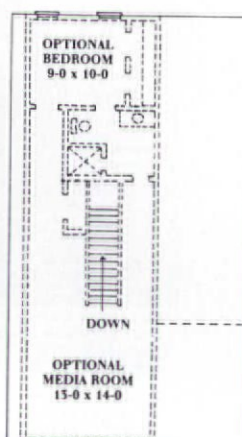
street. The floor plan, which totals a compact 1,772 square feet, includes a well-proportioned great room, formal dining room, breakfast area, and three bedrooms. There is ample room for expansion on the third floor.



First Floor



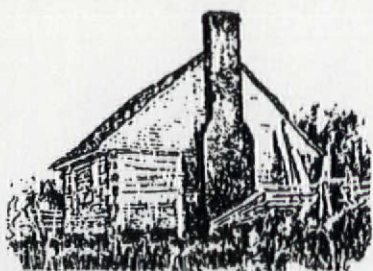
Second Floor



Third Floor

Plan HR-19-EA

Cost	\$200
Set of 5	\$260
Set of 8	\$300
Bedrooms	3
Bathrooms	2½
Square Footage	1,772'
First Floor	893'
Second Floor	879'
Ceiling Height	
First Floor	10'
Second Floor	9'
Overall Dimensions	
Width	34'
Depth	74'



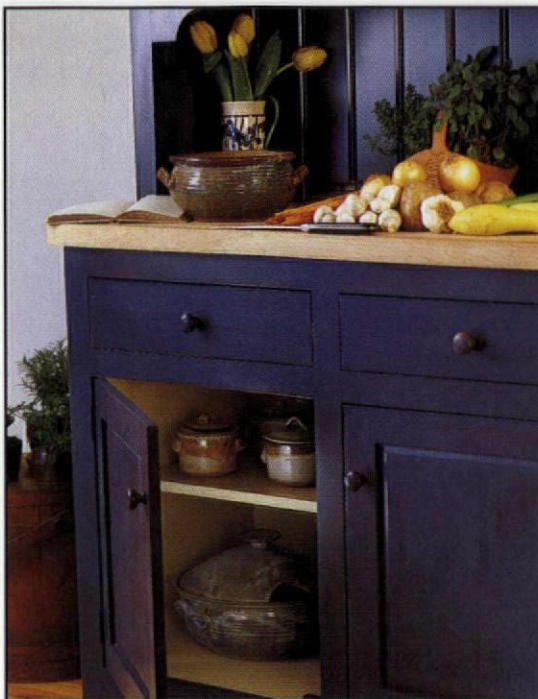
LOG HOUSES. . . and other
18th & 19th century building
materials salvaged from old
houses, grist mills and barns;
plus. . .

Resawn Long Leaf Yellow
Pine & Oak Random Width
Flooring up to 13"

Sylvan Brandt

653 Main Street, Lititz, PA 17543
(717) 626-4520
Fax: (717) 626-5867

Discover our True Colors



Genuine Old-Fashioned Milk
Paint, made from natural
materials like milk protein,
lime, and earth pigments.

Select from a wide base of
sixteen colors, or let us
custom blend one for you.

Hand painted full custom
cabinetry for kitchens, baths,
and other rooms.

Available nationwide.

CROWNPOINT
CABINETRY

Period styling.
Handcrafted to the finest quality.

153 Charlestown Road • PO Box 1560 • Claremont, NH • 03743 • 800-999-4994
<http://www.crown-point.com>

SPRING COUNTERBALANCES



Struggling with your win-
dows? Replace old pulleys,
weights, and ropes for smooth,
trouble-free operation.

No need to remove the sash.
Send for more information
through the Reader's Service
section of this issue.

Pullman Mfg. Corp.

PHONE: 716-334-1350 FAX: 716-359-4460

Quality and Value, Since 1931

METAL



Only
\$425
For 3'6" Diameter
11-Riser Kit F.O.B.
Broomall, PA

• Diameters 3'6" to 7'0"
• Kits or Welded Units

OAK



Only
\$1575
For 4' Diameter
11-Riser Kit F.O.B.
Broomall, PA

• Diameters 4'0" to 6'0"
• All Oak Construction

VICTORIAN



Only
\$3300
For 4' Diameter
11-Riser Kit F.O.B.
Broomall, PA

Shown 5' diam. with
optional brass handrail,
in-between spindles
and scroll tread ends.

• Diameters 4'0" to 6'0"
• Weight Saving Cast Aluminum

All kits available in any floor-to-floor height and BOCA/UBC code models. Made in the U.S.A.

Call for the FREE 32 page color catalog:

1-800-523-7427 Ext. HJ57

or visit our Web Site at <http://www.theironshop.com>

Showroom/Warehouse Locations:

Broomall, PA (610) 544-7100 | Houston, TX (713) 789-0648
Ontario, CA (909) 605-1000 | Chicago, IL (847) 952-9010
Sarasota, FL (941) 923-1479 | Stamford, CT (203) 325-8466

Please send me the FREE 32 page color catalog:

Name _____

Address _____

City _____ State _____ Zip _____

Mail to: The Iron Shop, Dept. HJ57, Box 547,
400 Reed Rd., Broomall, PA 19008.

The Leading Manufacturer of
Spiral Stair Kits™

THE IRON SHOP®

©1997 THE IRON SHOP

HOW TO ORDER OUR PLANS

Mail-order plans have a long history in shaping the residential architecture of the country. Of the thousands of house plans available today, few exhibit good design and a grasp of historical proportion and detail. So, in response to requests from OHJ readers, the editors have "done the homework": we've hand-picked plans. In each issue, we offer the most attractive, authentic, and buildable of the historical designs, from all periods of American architectural history. Let us know what plans you're looking for.

You can order actual blueprints for all the houses featured. These plans are designed to conform to national building-code standards. However, the requirements of your site and local building codes mean you'll probably need the assistance of a professional designer (your builder may qualify) or an architect.

For the houses shown in this issue, blueprints may include:

- Detailed floor plans showing dimensions for framing. Some may also have detailed layouts and show the location of electrical and plumbing components.
- Interior elevations are included in some plans, showing interior views of kitchen, bath, fireplace, built-ins, and cabinet designs.
- Building cross sections: cornice, fireplace, and cabinet sections when needed to help your builder understand major interior details.

- Framing diagrams that show layouts of framing pieces and their locations for roof, first, and second floors.
- Energy-saving specs, where noteworthy, are included, such as vapor barriers, insulated sheathing, caulking and foam-sealant areas, batt insulation, and attic exhaust ventilators.
- May include foundation plan for basement or crawl space. (Crawl space plans can easily be adapted for full basements by your builder.)

Why order multiple sets? If you're serious about building, you'll need a set each for

the general contractor, mortgage lender, electrician, plumber, heating/ventilating contractor, building permit department, other township use or interior designer, and one for yourself. Ordering the 8-set plan saves money and additional shipping charges.

Other notes: (1) Plans are copyrighted, and they are printed for you when you order. Therefore, they are not refundable.

If you would like information on ordering more than eight sets of the same plan, please call our Customer Service Department

at (508) 281-8803.

(2) Mirror-reverse plans are useful when the house would fit the site better "floppe." For this you need one set of mirror-reverse plans for the contractor; but because the reverse plans have backwards lettering and dimensions, all other sets should be ordered right-reading.

(3) Heating and air-conditioning layouts are not included. You need a local mechanical contractor to size and locate the proper unit for your specific conditions of climate and site.

MAIL TO: OHJ House Plan Service, 2 Main Street, Gloucester, MA 01930

Or call (508) 281-8803 to charge your order.

Please send the following:

PLAN NAME _____ PLAN # _____

#1 ☐ ONE COMPLETE SET OF WORKING DRAWINGS\$ _____

#2 ☐ FIVE-SET PACKAGE\$ _____

#3 ☐ EIGHT-SET PACKAGE\$ _____

#4 ☐ PLEASE INCLUDE 1 ADDITIONAL SET OF MIRROR-REVERSE @ \$25.....\$ _____

ADD POSTAGE & HANDLING.....\$ 7.50

TOTAL.....\$ _____

SEND TO _____ ☐ CHECK ENCLOSED CHARGE TO: ☐ VISA ☐ MC

STREET _____ CARD # _____ EXP. DATE _____

CITY _____ SIGNATURE OF CARDHOLDER _____

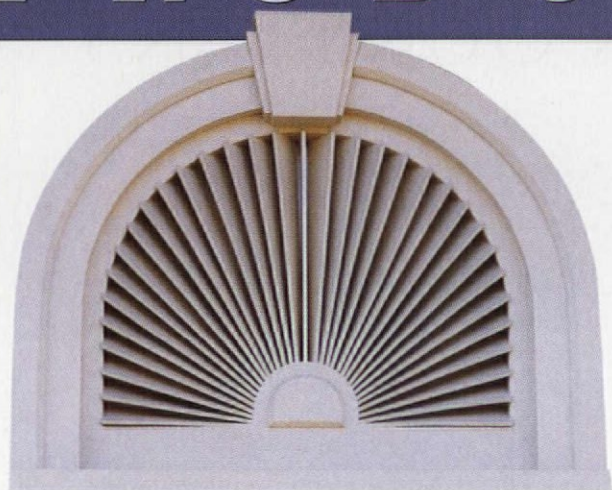
STATE _____ ZIP _____ DAYTIME PHONE # _____

Please allow 3 weeks for delivery.

PRICES GOOD THROUGH JUNE 1998

MJ97

PRODUCTS by Mary Ellen Polson



sure-treated lumber. One gallon retails for about \$20. To locate a supplier, contact Samuel Cabot Inc., 100 Hale St., Newburyport, MA 01950, (800) 877-8246.

FANLIGHT VENT

THIS FEDERAL-STYLE fanlight conceals a durable aluminum vent designed to keep your attic high and dry. The exterior louver is built with mortise-and-tenon construction; each radial spindle is locked in place at the center. Inside, the hidden second louver repels water as it allows for air circulation. Mesh screening between the wood and aluminum louvers keeps bugs out, and an aluminum shield at the base releases any water that blows inside. Prices begin at about \$1,000 for a 26" louver. Decorative fanlights for interior use are also available for about half the cost of the full assembly. To order, con-

Ruggedly built and classically designed, Historical Louver's fanlight vent provides weather-tight ventilation for your attic.

tact Historical Louver, 2 Meadow Dr., Springfield, VT 05156, (802) 886-2443.

GAZE IN STYLE

IF THE FOCUS OF YOUR early 20th century garden is a gazing globe, this latticework stand built in the French trellis-work tradition would be a perfect addition. Constructed

of extra-thick, unblemished cedar and fitted with a laminated wood turning of plantation-grown mahogany, the stand securely holds a 12" mirrored globe. The globe holder retails for about \$310, while the globes sell for about \$50. Other latticework designs include plant stands and a series of 8', 10', and 12' obelisks. There's also a Prairie School-inspired stand designed to mimic the look of limestone. To locate a supplier, contact Lake Creek Garden Features, 200 N. Illinois St., Lake City, IA 51449, (712) 464-8924.

Blue, red, silver, gold, amethyst, and green gazing globes will complement this latticework stand from Lake Creek Garden Features.



FINIAL FLOURISH

MISSISSIPPI'S NATCHEZ Trace is famous for the colonnaded antebellum homes that line this old stagecoach route. Now you can capture the cachet of the Old South with drapery hardware



Add Southern panache to drapery hardware with finials and tiebacks from the Historic Natchez Collection.

from the Historic Natchez Collection. Decorative finials come in swirled and serpentine patterns; tiebacks include an acorn-and-leaf design. All pieces are reproduced in dimensions that closely match the originals. Made of resin, the hardware is available in gold or silver metal leaf and a gilt varnish. Available only through interior designers, wholesale prices begin at \$90 for tiebacks, and \$135 for finials. For a catalog, contact the Elizabeth Bater Home Collection, P.O. Box 793, Devon, PA 19333, (610) 687-3960.

RESTORATION

PARQUET, ANYONE?

HERE'S A LINE OF PARQUET flooring and inlays that reproduces originals from American homes built between 1880 and 1920. Composed of maple, cherry, walnut, mahogany, and other fine hardwoods, the precision-cut, inlaid designs are $\frac{5}{8}$ " thick. Borders come pre-assembled in more than 20 patterns, including geometric and floral styles. More than a dozen styles of parquet flooring are available in a choice of woods, including quarter-sawn walnut and oak. Prices begin at \$12 to \$30 per square foot, plus installation. To locate a supplier, contact Historic Floors of Oshkosh, 911 E. Main St., Winneconne, WI 54986, (414) 582-9977.

STAINLESS BRASS

BRASS ADDS PERIOD LUSTER to any bathroom—but not when the polished



LifeShine combines the beauty of polished brass with the durability of chrome.

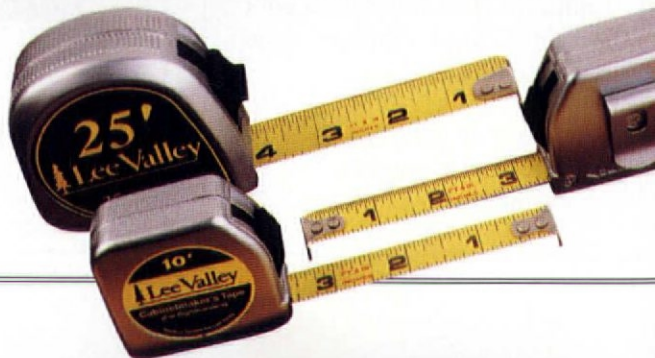
finish begins to spot and tarnish. Made with the same technology used to harden silicon chips and the surfaces of fighter jets, LifeShine bathroom hardware is guaranteed not to tarnish, corrode, discolor, or flake off. The finish resists scratches and won't come off, even if the faucet is dented. LifeShine is available in Moen's Monticello bath collection, which includes cross and porcelain-lever handles. The 4" lavatory set shown above retails for about \$280, comparable to the same fixture in polished brass. To locate a dealer, contact Moen, Inc., 25300 Al Moen Dr., N. Olmsted, Ohio, 44070, (800) 553-6636.

MY RIGHT, YOUR LEFT

THESE NEW TAPE MEASURES from Lee Valley Tools read right to left—

a more natural orientation for southpaws. Right-handers may also find them convenient for scribing carpentry measurements, since you can hold the tape in your left hand and mark with your right, without reading upside down. A 10' tape, which is suitable for cabinet-makers, is $\frac{1}{2}$ " wide. The 25' and 33' lengths are 1" wide. Prices range from \$3.95 to \$7.95. Order from Lee Valley Tools Ltd., 12 E. River St., Ogdensburg, NY 13669, (613) 596-0350.

Two of Lee Valley Tools' new left-handed tape measures are on the left; a right-handed measure is on the right.



ON THE PORCH

PROTECT YOUR PORCH with the durability of Teflon. Cabot's Solid Color Decking Stains are an ideal coating for porches where pooling water and greasy dirt are problems. The stains are vapor permeable, allowing moisture to pass through the heavily pigmented coating. Completely opaque, the long-lasting acrylic stain is mildew resistant, water repellent, and sheds oil like, well, a Teflon-coated frying pan. Available in six ready-



Cabot's Solid Color Decking Stains offer the advantages of a modern deck stain with the look of a traditional porch paint.

mixed colors and unlimited tinting combinations, it can be applied to most woods, including pres-

This 5" wide Greek key border is inlaid in mahogany and white oak.

Antique Wood and Coal Stoves and Ranges
Selling and Restoring the World's Best
**GOOD TIME
STOVE CO.**
Est. 1973

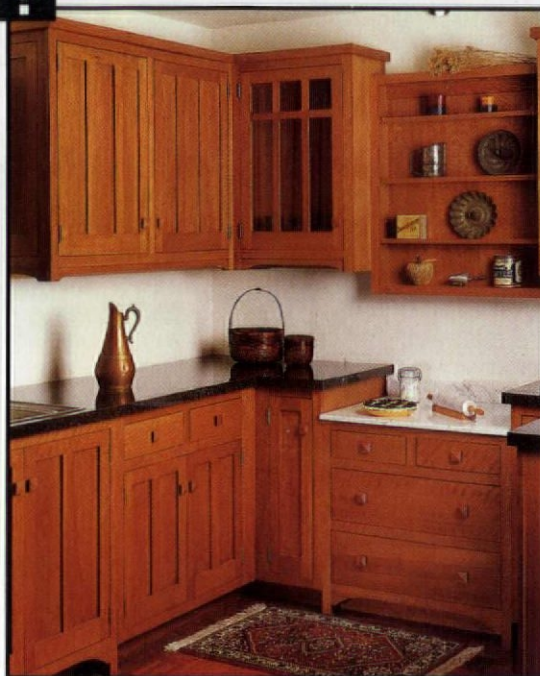
FUNCTIONAL ART



The Glenwood Baseburner 8, manufactured in 1905, is one of the finest cylinder stoves made. It can burn wood or coal and maintains a fire for 10-16 hours. Its lines are timeless making this stove a fine piece of functional art. A definite must for the family that wants the best in quality, artistry and efficiency. Other models, various sizes available.

For more information call: (413) 268-3677
Stove Black Richardson

MISSION ACCOMPLISHED



ARTS AND CRAFTS
STYLING

ALL WOOD

FULL CUSTOM

HANDCRAFTED
EXCELLENCE

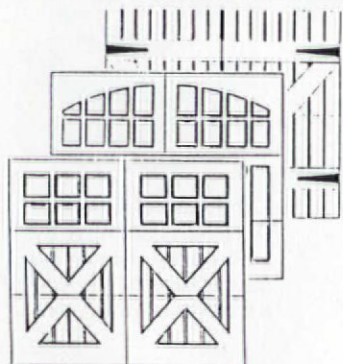


CROWNPOINT
CABINETS

153 Charlestown Road • PO Box 1560 • Claremont, NH • 03743
800 • 999 • 4994 FAX 800 • 370 • 1218 <http://www.crown-point.com>

Carriage House Doors

HANDCRAFTED BY **HOLMES
DOOR**



Authentic Carriage House style wood overhead sectional garage doors - any size - any design. Custom garage door millwork from the Northwest's leading wood garage door manufacturer.

Info. Call (206) 931-8900
Holmes Garage Door
Auburn, Washington

Hand Printed ART WALLPAPER



Apple Tree Frieze, from our Arts & Crafts collection



Kelmscott Frieze, from our Morris Tradition collection

Available by Mail Order Complete Catalog: \$10.00

BRADBURY & BRADBURY

P.O. Box 155-C2 Benicia, Ca. 94510 (707) 746-1900

BURROWS STUDIO

Arts & Crafts Movement
Wallpaper, Fabric & Carpet
Visit us on the World Wide Web
at: <http://www.burrows.com>



Introducing the
NORWOOD-DAY COLLECTION
Hand-Printed Reproductions of
English Arts & Crafts Movement
Wallpapers, designed c. 1880-1890.

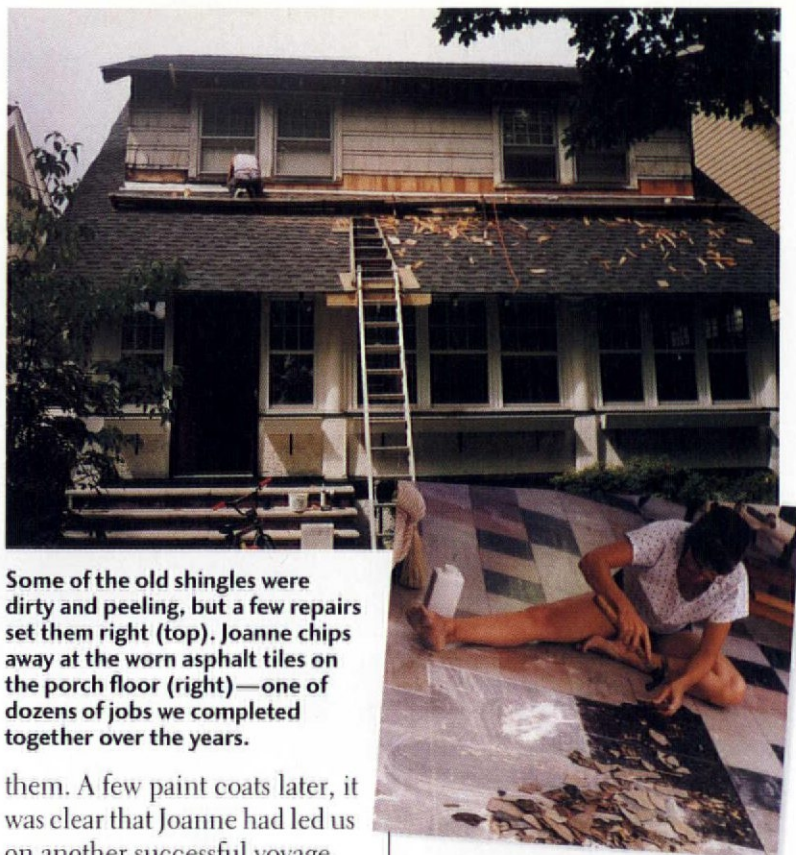


"MEADOW LILY"

An Arts & Crafts Movement
Nottingham Lace Curtain
Free Catalog Includes Full Range
of Victorian Lace Curtain Designs

For product information contact:
J.R. BURROWS & COMPANY
P.O. Box 522, Rockland
Massachusetts 02370

PHONE: (800) 347-1795



Some of the old shingles were dirty and peeling, but a few repairs set them right (top). Joanne chips away at the worn asphalt tiles on the porch floor (right)—one of dozens of jobs we completed together over the years.

them. A few paint coats later, it was clear that Joanne had led us on another successful voyage.

Tunneling Through Walls

LIKE LAYERS OF PAINT, THE DAYS, months, and years peeled away. Most of the time I was ready and willing to follow my wife's lead. Joanne had a single-minded belief that our home should be as beautiful and comfortable as we could possibly make it. Yet I must confess I found myself getting in touch with my inner handyman. There actually came a time when I created my own project.

Our stairway was enclosed by two walls, like a tunnel to the second floor. I couldn't picture how to open it up until a photograph in a cooking magazine inspired me. I came up with the idea of putting in a hand rail and balusters where none existed.

We handled the demolition of the walls ourselves, but the rest of the job was complex enough to require the help of a carpenter. The final result was a slender

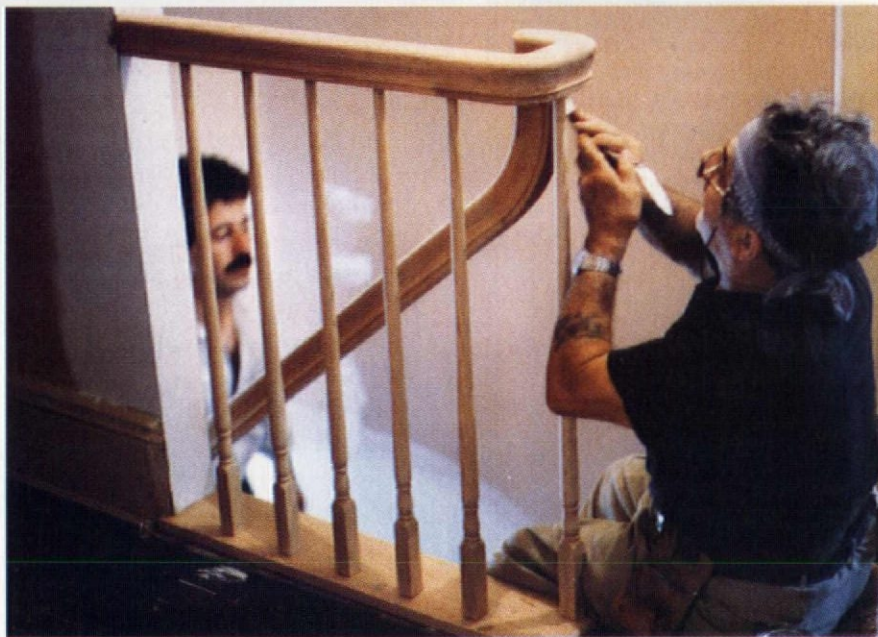
hand rail with two gooseneck turns, one at the top landing and one at the bottom.

I'm not sure what had gotten into me. Maybe I was beginning to agree with Joanne's philosophy—that every crazy idea made the house more beautiful or comfortable and was therefore worthwhile. Maybe I had inhaled too much paint stripper. I was becoming unsure of my own sanity. Meanwhile, my wife was so proud of me that she let me sketch out the design, adding just a few of her own touches.

Joanne remains the captain. Every time I think we've embarked on our last adventure, she discovers another hidden treasure. Just the other day, she was looking at the outside of the house saying, "You know, I don't like the rough stucco on the bottom storey. It doesn't look original." I might have to decide whether to jump ship or tie myself to the mast again.



When Joanne and I began our voyage into the uncharted depths of restoration, we had no idea where we were headed. Joanne stripped through nine layers of paint to reach the original oak cabinets (top left). When she was finished, we found brass fleur-de-lis hinges (top right). Joanne added a top landing to our stairwell job—which meant calling in a carpenter (right).



Joanne began talking about how much she hated the aluminum siding on the top storey. She kept saying how lovely the old shingles must have been. One of our neighbors had found a picture of the house taken in 1920 that showed ribbon coursing, which alternates wide and narrow courses of shingles. Once that photo was framed and hanging in the kitchen, I began to detect a gleam in Joanne's eye and a certain restlessness in her speech that I'd seen before. I knew the other shoe would eventually drop.

It fell like a steel-toed boot. Another neighbor claimed to remember that when the aluminum was put up 30 years ago, it was nailed right over the shingles. That was all Joanne needed. Some people see the past flash

before their eyes at moments of truth. I saw my future: money, time, work, and mess. From that point on, I knew taking down the siding was inevitable.

I climbed a ladder and pried back a corner of aluminum to inspect what was underneath. Briefly, I thought about lying, but couldn't bear the thought of her later discovering the truth. Yes, the shingles were still there and seemed to be in fine shape.

When we had our roof reshingled that summer, we asked the roofers to rip the aluminum off the sides of the house. Underneath were hundreds of cedar shingles, overlapping each other just like in the picture, a piece of local history revealed. They were dirty and peeling, but sound. Our painter took the time to carefully hand-scrape

Shipping Out with a Restorer

BY JOSEPH MARRA

ONE FRIDAY NIGHT, NOT LONG AFTER WE BOUGHT our old house, I came home to find a lone light shining eerily from within. You know how people who've been burglarized often sense something amiss when the key touches the lock? I felt similar trepidation.

As it turned out, my instincts were right. I found my wife Joanne on a stepladder in the pantry, razor blade in hand. The sinister beacon was a drop-light. White paint chips littered the floor around her. "These cabinets are oak," she said, smiling her most convincing, confident smile. She made it sound like she had discovered DNA.

That weekend began our first voyage on the roiling seas of restoration. The journey has lasted more than 15 years, and for most of our marriage. I now know Joanne was right about stripping the oak cabinets, and so many other projects. At the time, though, I just couldn't understand what possessed her to begin scraping through nine layers of paint without knowing what lay underneath.

Getting My Sea Legs

IT'S NOT THAT I DIDN'T TRUST HER. WE BOTH LOVED OUR pre-World War I Bungalow in Bayside, New York, and it clearly needed work. You buy a place you can afford and fix it up, right? There was no way I could accuse her of leading me astray in that regard.

What I came to understand was that our home had

so many features—oak woodwork, glass doors, high ceilings, deep porches—that the superficial cleanup we had initially planned (or I had, anyway) would not do it justice. Just like a Federal spending bill, things mushroomed.

Once Joanne set her hand to the tiller, she never looked back. It was a few years, however, before I became accustomed to the hard labors of a seaman. My apprenticeship began as we stripped, sanded, and tung-oiled

our way through the pantry and kitchen. The work was often back-breaking, but it was very satisfying to see the gleaming oak woodwork emerge. Underneath all that paint was an unexpected bonus: brass hinges in a fleur-de-lis design, a recurring motif throughout the house.

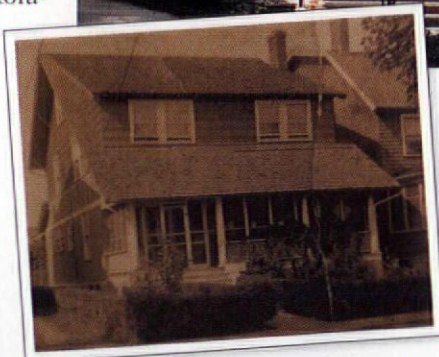
Slowly, we transformed our lives and our house. Once we finished the kitchen and pantry project, we began work on the front porch. After some preliminary work on the windows, Joanne argued for—and won—a new oak floor.

Weeks of chipping up

old asphalt tile followed. Since the porch is enclosed, we added a radiator so our kids could play there in cold weather. Joanne insisted on painting the radiator with a fancy pattern to show off the raised ornament. Then came a new front door and, last but not least, carpenter-built window boxes made of cedar.

Searching for Shingles

EVERYTHING LOOKED SHIPSHAPE. ALL THAT WE NEEDED was the right kind of furniture to enhance the beauty of our restored house. The big, messy jobs were done—or so I thought.



When we bought our Bungalow (above), the ribbon shingles on the top storey were hidden under aluminum siding. Once this photograph (left) from 1920 surfaced, I knew Joanne would insist on restoring the shingles.

WILL THE PLATER DO YOUR JOB IN-HOUSE?—Many platers specialize in only one finish because it is easier to treat the water for environmental contaminants. They job out other finishes to shops across town or in the next state. This increases the chances for lost parts or lack of quality control. Choose a plater who will do the work on-site and will be there to follow your instructions.

WHAT KIND OF EQUIPMENT IS IN THE SHOP?—Generally, bigger equipment will yield a better job. A well-equipped plater will have at least one floor-mounted polishing lathe with 8" or larger wheels, plus a continuous belt sanding machine to level surfaces so they are truly flat—difficult to do with a wheel. It also pays to ask about tank size. Large tanks mean there is more of a reservoir of metal and chemicals to minimize color change during the plating process—resulting, say, in a brass job that varies from orange to yellow. A tank of at least 300 gallons is required for a quality brass job.

HOW WILL THE PARTS BE LACQUERED?—Sprayed-on lacquer is preferable to dipped lacquer. Dipping hardware can contaminate the lacquer with polishing dust that will dull the finish. Baked lacquer is more durable than air-dried lacquer because it cross-links the polymers in the coating. Ask whether the lacquer is tinted. Some refinishers use tinted lacquer because it hides a lot of sins in brass and bronze polishing or plating.

DOES THE PLATER REGULARLY HANDLE RESTORATION HARDWARE? Request to see finished work. If the plater specializes in old-house parts, he or she will have the care to inventory and keep track of your job (say, by sets of door hardware), the skill not to dull corners and details during polishing, and the experience to recognize beautiful antique metal finishes.

Special thanks to Jack Neu of Strassen Plating for technical help with this article.

SUPPLIERS

AL BAR-WILMETTE PLATERS
127 Green Bay Rd.
Wilmette, IL 60091
(847) 251-0187
Antique metal restoration,
plus sources for antique
door hardware.

WILLIAM J. RIGBY COMPANY
73 Elm St.
Cooperstown, NY 13326
(607) 547-1900
Original stock antique
hardware in various
finishes—no reproductions.

STRASSEN PLATING
3619 Walton Ave.
Cleveland, OH 44113
(216) 961-1525
Antique metals restoration,
plus sources for antique door
hardware.

Be on Your Metal

In the 1920s, Henry Ford may have had the cheek to offer car buyers any color so long as it was black, but fiercely competitive hardware manufacturers needed to lure the buying public with myriad metal finishes. At the time there were no less than 33 standard hardware finishes recognized by the U.S. Government, many more promoted by individual manufacturers. Some were workhorse industrial coatings, such as zinc galvanizing, designed solely for protecting ferrous metals from rust, and still widely used. Others, such as Bower-Barffing, were unique but short-lived chemical treatments with both practical and aesthetic properties. These six hardware finishes are only a sampling of the variety once available to homebuilders and homeowners.



**BOWER-BARFF
ON CAST IRON**
A rust-inhibiting iron
finish produced with
heat, steam, and
chemicals.



**OLD COPPER ON
WROUGHT BRASS**
A highly popular
finish, the copper
plate is oxidized, then
selectively buffed.



**DARK SANDED BRASS
ON WROUGHT STEEL**
Brass plate oxidized
to green-black, then
treated to bring up
highlights.



**BRASS PLATE ON
WROUGHT STEEL**
One version of brass
on stamped steel;
each manufacturer
had their own.



**BRUSHED NICKEL
ON WROUGHT BRASS**
Nickel plated on
stamped brass, then
treated for a satin finish.



**SANDED BRASS FINISH
ON WROUGHT BRASS**
Solid stamped brass
oxidized and treated
to accent corners.



In electroplating, the hardware is submerged in a solution using hooks or wires.

What is Plating?

Metal coatings—or plates—have been applied to objects for decoration or protection since ancient times. Gilding was used by the Egyptians. The Romans perfected ways to solder silver to common metals, or coat iron weapons using a copper solution.

The most common modern method is electroplating, where electricity



Polishing is an important part of all metal refinishing. Both base metals and final plates need to be polished for a quality job.

is applied to two metals in a solution—a process akin to charging a battery. In the basic electroplating operation, the parts to be plated are hung on the cathode (negative terminal), while a bar of brass, zinc, nickel, copper, or other plating metal is hung on the anode (positive terminal).

When both terminals are dipped in a tank and DC current is applied between them, the plating metal disassociates itself from the bar, moves into the solution, and is then deposited on base metal parts

as a thin, uniform layer. Platers can control the thickness and nature of the plate by selecting the time in the tank, amount of metal in the tank, electric current level, and so on. Other factors, such as tank size, solution makeup, metal purity, and skill of the plater, all have their influence on the quality of the final plating job.

Depending upon the kind of work they seek, plating shops may also be equipped to finish solid or plated hardware with decorative effects. Oxidized finishes that enhance the metal with a pleasing patina are produced by treating the hardware with chemicals, gasses, or heat. Brushed surfaces may be the result of a chemical or mechanical process.

surface imperfections resulting from stripping or the original casting process—that will only be magnified by the final shiny plate if left untouched. There may also be hills and valleys that mar what is supposed to be a dead-level surface.

After polishing, the base metal is copper-struck in the best work. In this step the plater applies an intermediate layer of copper to help the plating stick to the base metal. When applied in a heavy coat, copper is also used to fill surface imperfections and permit another polishing of the surface. Some platers will skip this step if they can get the base metal clean enough for the final plate to adhere, but generally copper striking is the sign of a quality job.

Striking is followed by plating on the finish metal. The plate too needs to be polished for the final appearance, then further treated if a decorative effect is desired. The final step for much hardware is a coat of lacquer, which protects doorknobs, lamp parts, and the like from oxidation.

Dealing with Platers

METAL PLATING IS A LARGE, WIDESPREAD field, with the bulk of the companies servicing vast orders for the industrial market—nuts and bolts, telecommunications connectors, or automotive and aerospace parts. In contrast, refinishing and replating old-house hardware is a specialty (often “mom & pop”) business. Most shops are relatively small: under seven employees, plus the proprietor.

Unfortunately, the increasingly stringent environmental regulations of our era, while good for the planet at large, have hit the plating industry hard. Plating and its related operations consume gallons of water, and they produce heavy metals as a waste product. The fallout is, platers large and small have been forced to become even more specialized. Here’s what to ask when shopping for a restoration plater:

IS THE COMPANY’S MAIN BUSINESS PLATING OR POLISHING?—It is easier to refinish and polish solid hardware than it is to go through the plating process. In most cities, the phone book has multiple listings for platers, but some really do just polishing and sub-contract the plating. Also, watch out for the operator that tries to repolish old plating at the price of a new plating job.

TH THE PLATER

ishes on Architectural Hardware BY GORDON BOCK

matches the original appearance, then you have a solid-metal item that was not plated. If the scratch shows a different color, you have a plated item. Non-ferrous base metals such as copper or brass were quite common for even mundane parts because they were easy to form and work.

Hardware made after 1945 that shows a silver color is probably pot metal (some mixture of zinc). Aluminum, too, was often used in the 1920s and 1930s, especially in lighting fixtures. A silver coating over a base metal, particularly on lighting fixtures, is usually silver or nickel plate. Nickel is extremely hard, while silver is soft; you can wear through the coating with fine steel wool. Also fresh silver looks white, while nickel has a yellow cast. Chrome did not appear until the 1920s and is distinctly blue in character.

Creative finishes were far from rare (see "Be on Your Metal," p. 59). Many solid and plated surfaces were antiqued by dying the clean metal then removing the dye in selected areas with buffing wheels. Corners and recesses may still show these black or brown treatments. Most solid hardware needs only to be polished and lacquered to regain its original appearance. However, if you have, say, an antique copper finish on solid brass or iron, then the hardware must be replated.

The Plating Process

REPLATING IS NOT LIKE REPAINTING; YOU can't just overcoat the old metal, even with good preparation. Not only will the plating refuse to stick, but it also won't produce an attractive, renewed surface.

The first step in quality replating is stripping off lacquer, paint, old plate, corrosion, and grime down to base metal. Like a lot of processes, the choice of method and care of the craftsman have a big influence on quality. Some platers still use a steel wire wheel for stripping—an anti-



Hard and shiny, nickel-plated cast iron makes up the brightwork on most pre-1920 wood or gas stoves. Replating this much metal will cost at least \$300, but will restore the stove to like-new appearance.

quoted and potentially damaging method for soft metals. Others opt for one of the "gentle blasting" technologies, such as glass or urethane bead media, that are used for delicate machine parts. Chemical stripping and reverse-plate stripping generate hazardous materials. These processes are preferred for some jobs (removing nickel plate from solid brass, for example), but require special disposal permits.

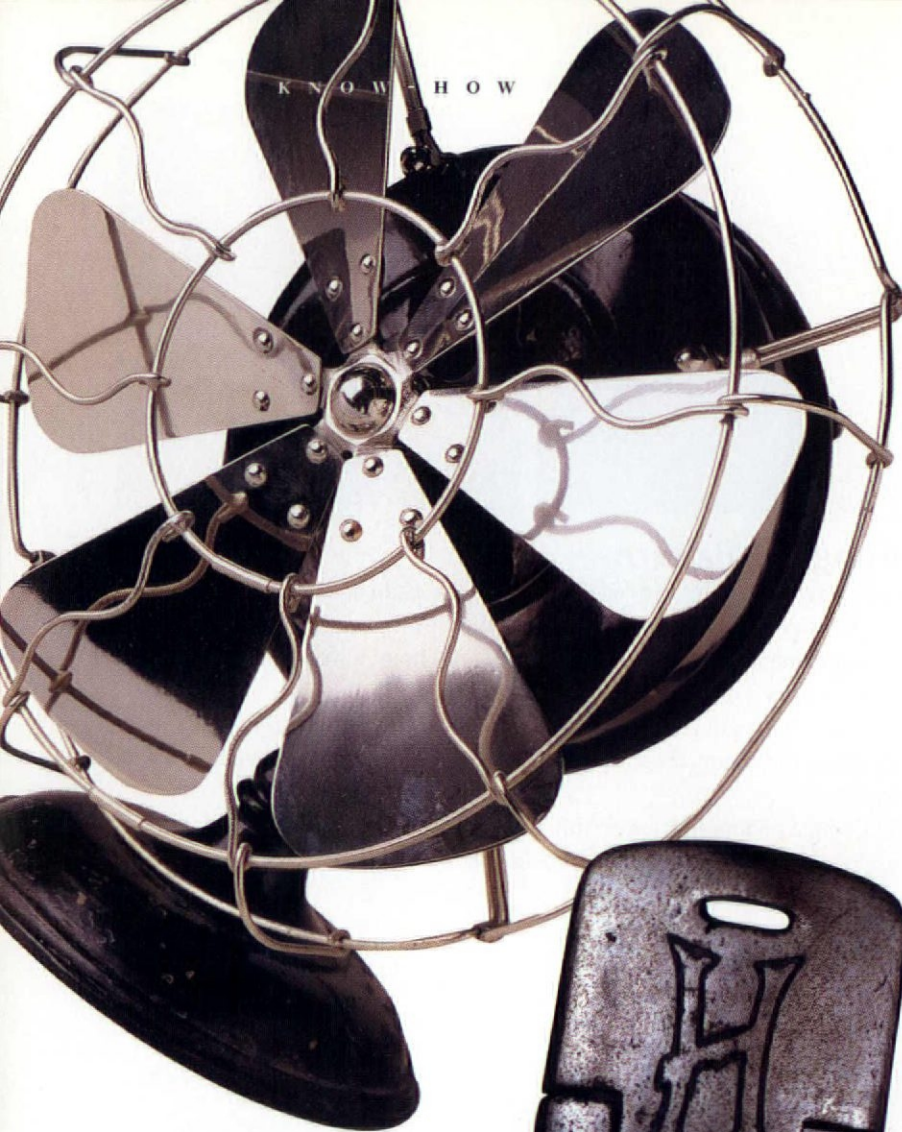
Once the object is stripped, it should be polished to smooth and level the base surface without removing details. The hardware may have pin holes and occlusions—minute



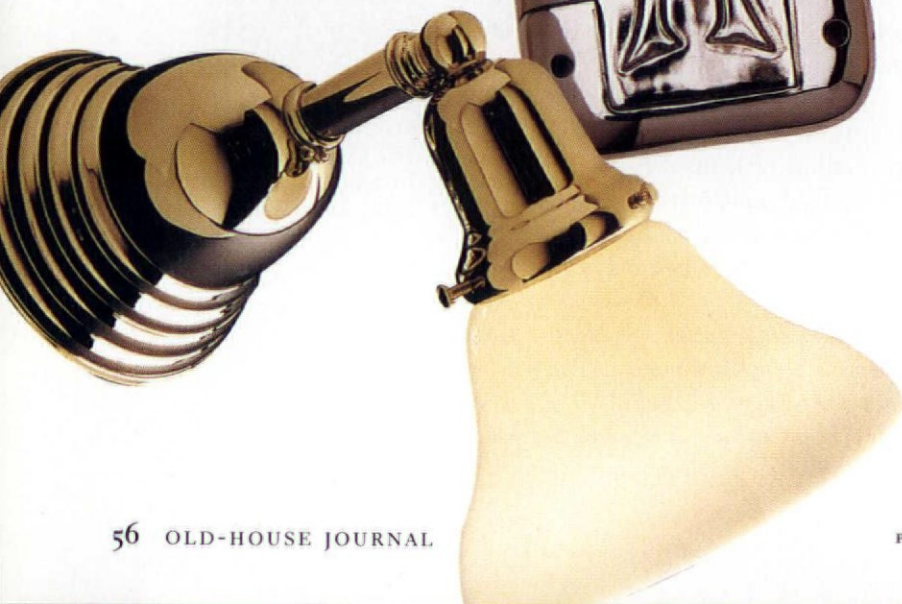
Plating Pitfalls

An experienced plater will be able to tell you in advance what to expect from a replating job. Four iron ball-and-claw table legs (top) took a new brass plate fine, but the heat cracked the glass—as predicted. This cookstove rail (below) will have to be disassembled before plating because it's hollow.





Nickel, not chrome, is the metal plate in old houses. It fails in telltale flakes (right), but is readily renewed, as this restored fan and stove trim show. Nickel is also an authentic finish for reproduction lighting.



A DATE W

Restoring the Decorative Me

EVER POLISH A ONCE-BRASSY LAMP TO FIND it's rusting under the dirt? Ever clean a dull grey doorknocker and discover it's delightfully more detailed than you ever suspected? Chances are that's because the surface of the hardware has a decorative metal finish.

Before 1940—especially prior to the 1920s—there were literally scores of metal finishes and effects. All manner of working hardware for doors, windows, and cabinets, as well as the metal brightwork on lamps, stoves, and even furniture, might be treated to enhance the appearance (or performance) of desirable base metals like brass and bronze, or plated to make cast iron and steel look more attractive. In the best quality work, even screw heads and washers were finished to match the hardware.

Metal finishes are beautiful and highly durable, but decades of use and exposure eventually wear them out—as countless old-house doorknobs will attest. What many folks don't realize is that it's possible to restore most metal finishes to their original luster. Just bring the parts to your friendly neighborhood plater.

Know What You've Got

BEFORE WE GET TO ADVICE ABOUT FINDING and hiring a good plater, let's back up a bit. You must determine what the base metal is and what the finish is. First, examine the back of a part from a sheltered location to get some idea of its original appearance. A reddish color indicates rose brass or bronze; yellow is brass; silver is nickel or German silver (a low percentage of silver mixed with base metals to permit a high polish). Next put a magnet to the hardware. If it sticks firmly, the part has an iron base (cast iron or stamped steel) with plating to prevent rusting.

If the magnet does not stick, scratch the back surface with a sharp awl or screwdriver in an inconspicuous spot. If the scratch

and make it easier to spot holes and areas that need patching.

Repairing Plates

FILL HOLES SMALLER THAN A DIME WITH A latex caulk that contains silicone. For larger holes, try repairing the damaged area with polyester auto body filler, available in hardware and auto supply stores. If necessary, you can level and shape the filler as if you were patching a car door. Shortly after the filler has been mixed with hardener, it begins to set up. While it is in this soft, rubbery state, it is easy to shave and carve with a "cheese-grater" blade (such as Stanley Surform brand). Then, when it's fully hardened, sand it smooth. Read the manufacturer's directions carefully and experiment with the filler before attempting any repairs. It's also possible to mold a small replacement section using auto body filler and a hobby mold-making kit, but you'll need to experiment with techniques to cast and attach the finished patch.

If the damage is not in a featured part of the pattern (say, the fill band between the cornice and the border), you may be able to patch it. Use a piece of salvaged sheet metal that matches the original pattern as closely as possible. The patch should be about 2" larger than the hole. Fold the edges under $\frac{1}{2}$ " inch and cut off the corners at an angle with a pair of tin snips. Then clamp the patch in place and attach with pop rivets.

Replacing Plates

PLATES THAT ARE SEVERELY DAMAGED OR rusted through can be replaced with new ones. In some cases, the original pattern may still be available from long-time manufacturers (see "Suppliers"). Replacement plates are relatively inexpensive—about \$2.50 to \$3 per square foot.

Plates usually come in standard dimensions of 2' x 4' or 2' x 8', or in 2' squares. Typically, they overlap slightly and "button" together at the edges. To remove a damaged section, coax out the original cone-head-shaped nails or brads with a 6" tacking bar, taking care not to bend or rip adjacent plates. Since the plate edges will be sharp, be sure to wear work gloves when you're handling the material. If you dent the flanges of surrounding pieces, pound them flat with a hard rubber mallet.

Before installing the new section,



Raising the Pattern

An easy way to show off the relief of an embossed tin ceiling is to highlight a raised design with a darker or lighter version of the basic ground color, or with complementary colors. This three-step technique works well even over heavily encrusted paint.

- 1) Apply the highlight coat first. Allow this to dry thoroughly.
- 2) Apply the second coat, working the paint well into the deeper impressions.
- 3) Using a pliable sponge or soft cloth, quickly wipe the paint off the areas you want to showcase. You should see the highlight color emerge along the highest points of relief.

prime both sides and paint the surface with two coats of oil-based paint. You should be able to nail the plate directly to the existing furring strips. Otherwise, cut a section of $\frac{1}{2}$ " plywood and screw it to the ceiling for a nailer. Drive 1" conehead nails into the small raised bumps, or buttons, that occur at regular intervals in the pattern.

Painting the Ceiling

IF YOU'VE EXPOSED ANY BARE METAL, GIVE your ceiling the full sealing treatment. Apply a primer coat followed by two finish coats of an oil-based paint suitable for metals. Don't use latex or other water-based paints—rust will begin to form immediately. Avoid painting when the humidity is above 80 percent.

A $\frac{3}{4}$ " roller should have sufficient nap for a ceiling with a $\frac{1}{2}$ " relief. Thickly covered ceilings will need fewer coats. Correctly applied, a plain or decorative paint job will give your metal ceiling an edge that should last well into the next century. 🏠

Thanks to Neal Quitno of W.F. Norman Corp., Sheldon Gruber of AA-Abbingdon Affiliates, Glenn Eldridge of Chelsea Decorative Metal Co., Ed Soucy of Ring Leg Furnishings, and Matt Miller, AIA, for technical help with this article.

SUPPLIERS

W.F. NORMAN CORP.
P.O. Box 323
Nevada, MO 64772-0323
(800) 641-4038

SHANKER INDUSTRIES INC.
3435 Lawson Blvd.
Oceanside, NY 11572
(516) 766-4477

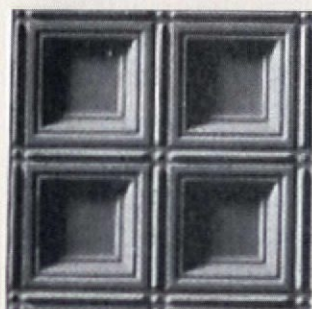
CHELSEA DECORATIVE METAL CO.
9603 Moonlight Dr.
Houston, TX 77096
(713) 721-9200

AA-ABBINGTON AFFILIATES
2149-51 Utica Ave.
Brooklyn, NY 11234
(718) 258-8333

STEPTOE & WIFE ANTIQUES LTD.
322 Geary Ave.
Toronto, Canada M6H 2C7
(416) 530-4200



Framed by wood beams, a metal ceiling takes the place of plaster in this early-20th-century home library.



Frescoes of Steel

RICHLY DETAILED, AFFORDABLE, AND VIRTUALLY indestructible, metal ceilings have never gone out of style since they first appeared *en masse* in the 1880s. During a heyday that lasted from 1900 to 1930, hundreds of simple and intricate patterns were stamped in steel. Manufacturers drew freely from classical Greek, French Renaissance, Gothic, Rococo, and Empire sources for inspiration.

Initially twice as expensive as plaster ceilings, by 1910, these raised, embossed metal panels were cheaper than either plaster or wood. Always popular for commercial buildings, "tin ceilings" quickly found their way into homes. Residential patterns tended to be less ornate than commercial designs. They were suited to the smaller rooms of a house and often mimicked the fine plaster decoration and coffered ceilings that were out of reach for most middle-class homeowners.

Entire rooms could be decorated with pressed metal, including ceilings, mouldings,

cornices, medallions, friezes, wall plates, and wainscots. Some manufacturers even hawked their merchandise as an ideal surface material for bathroom and kitchen walls—a recipe likely to produce rust.

The basic components of a ceiling included plates, borders, fillers, and cornices. The central plates were edged with a narrow border. Next came a stippled filler. The cornice or cove moulding provided the finishing touch, lapping the filler and visually anchoring the ceiling to adjoining walls.

While most residential ceilings were painted a matte white, that didn't keep turn-of-the-century manufacturers from actively hyping decorative techniques, including polychroming and gilding. Plates or panels were usually painted a light color, with darker tints used for medallions and cornices.

The handful of original manufacturers who survive today still produce original patterns that date to the late-19th and early-20th centuries. Struck from original steel dies, these replications are often so exact that one company (The W.F. Norman Corp.) simply reprints its 1908 catalog as its current pattern book.

The coffered and fleur-de-lis patterns at top left, reproduced from an early-20th-century catalog, are still widely available. The W.F. Norman pattern (bottom) has never been out of production.

AS THE FIRST PANELS OF A 1960S DROP ceiling come down, you see the unmistakable embossing of a "tin" ceiling overhead—a raised pattern of fleur-de-lis or circles laid out in a rectangular grid. Some of the paint is popping off; water stains and rust mar the surface. Can you salvage this miracle material of the late Industrial Age? With a little know-how and elbow grease, you bet your tintype you can.

Pressed out of sheet steel or sheet iron, metal ceilings were occasionally tin coated, but they were rarely made of solid tin. These easy-to-install ceilings were embraced by late 19th-century homeowners as one of the first cheap fixes for failing plaster. While there's no one way to approach every repair on a pressed metal ceiling, if you stick to a few sound techniques, you'll be on your way toward a turn-of-the-century fix-up of your own.

Removing Paint and Rust

METAL CEILINGS WERE MEANT TO BE PAINTED. Multiple coats of paint effectively seal the seams between plates, creating an unbroken layer of protection that thwarts rust. When breaks in the paint layer occur, they're usually warning signs of hidden water damage. Keep in mind that a 30-gauge, metal ceiling is only 1/100th of an inch thick. If there's rust, there's even less metal left. The best rule of thumb is to remove only surface rust and the loose or peeling paint that scrapes easily away. Since you'll be working on a surface that's likely to contain lead paint, take appropriate steps to reduce your exposure to paint chips and dust (see "Getting the Lead Out," July/Aug. 1992).

Most metal ceiling experts recommend using a 1" wire brush of medium stiffness, applied with just enough force to dislodge loose paint without gouging. If you're too enthusiastic with the brush, you may crush the embossment, especially where there are intricate patterns. You can also use a medium-bristle rotary brush attached to a drill. Expect to do some hand brushing in corners.

Another technique for removing loose paint is to bat the surface with a wire loop. This method is particularly appropriate for ceilings where most of the paint no longer bonds well to the steel surface. Make a loop



Quick Seals for Steel

The high relief of a metal ceiling offers a forgiving surface for minor repairs.

(1) Use steel wool to remove surface rust. It isn't necessary to remove all rust, just the scale and powdery material that prevents fresh paint from adhering to the ceiling.

(2) Fill in small holes with latex-based caulk that contains silicone. Although it's water-based, it doesn't contain enough moisture to create flash-rust.

(3) Patch larger holes with auto body filler. If the hole is more than 2" across, first back up the area to be patched with a piece of flexible 1/4" wire mesh. Then apply a base coat of the filler, followed by a finish coat. The filler can be shaped, shaved, or even molded to recreate some of the detail lost to damage. You'll need to work fast, since the filler hardens quickly.

at the end of a length of flexible, 16-gauge construction wire, and fasten it at the bottom. The finished bat should be about the length of a fly-swatter. Working in sections 2' square, bat the ceiling with the tool; the loose paint should fall right off.

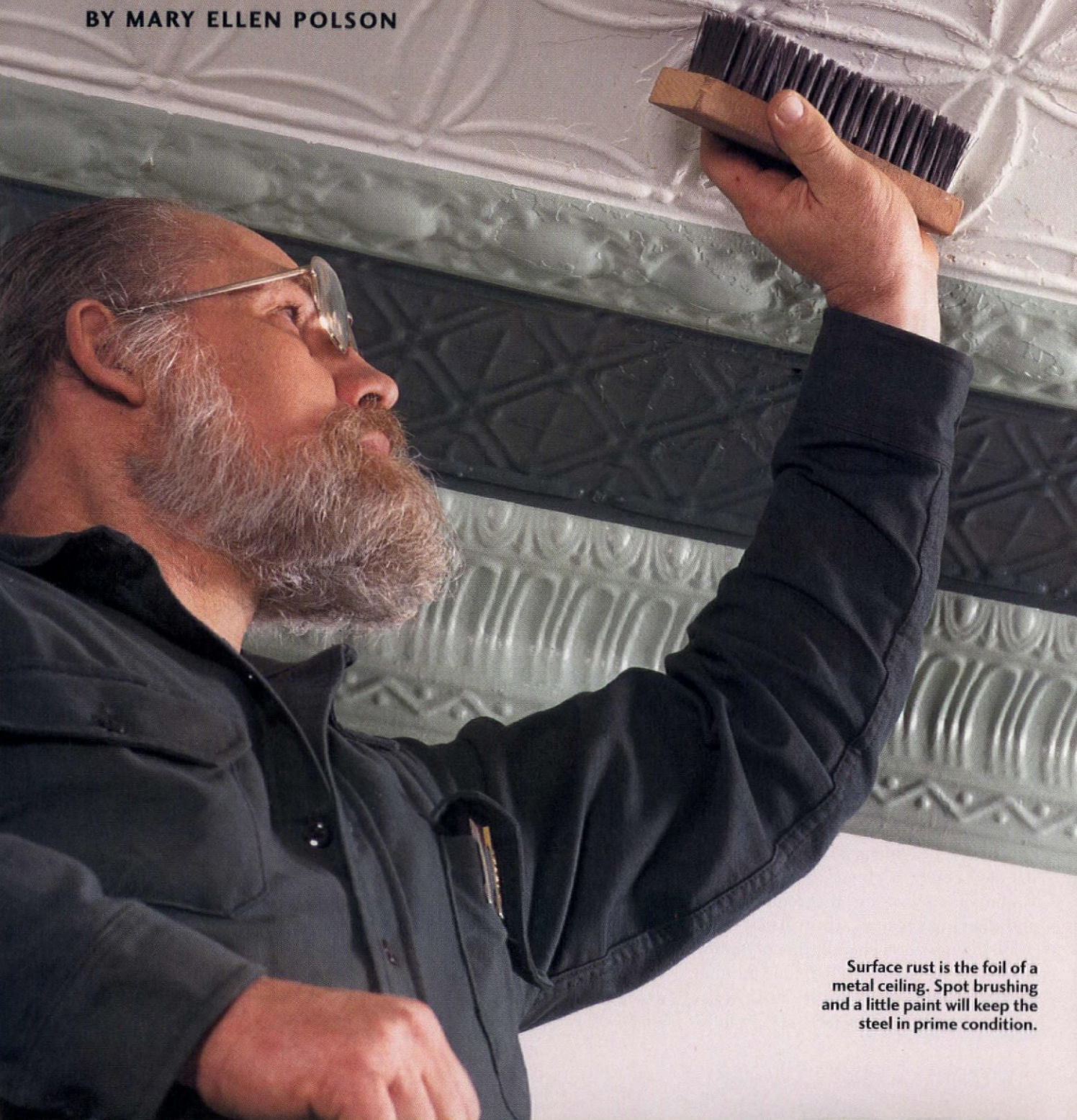
To remove rust, use medium-grade steel wool or aluminum oxide sandpaper. If an area is heavily rusted, give it a couple of coats of paint. This will build up the surface

H O W - T O

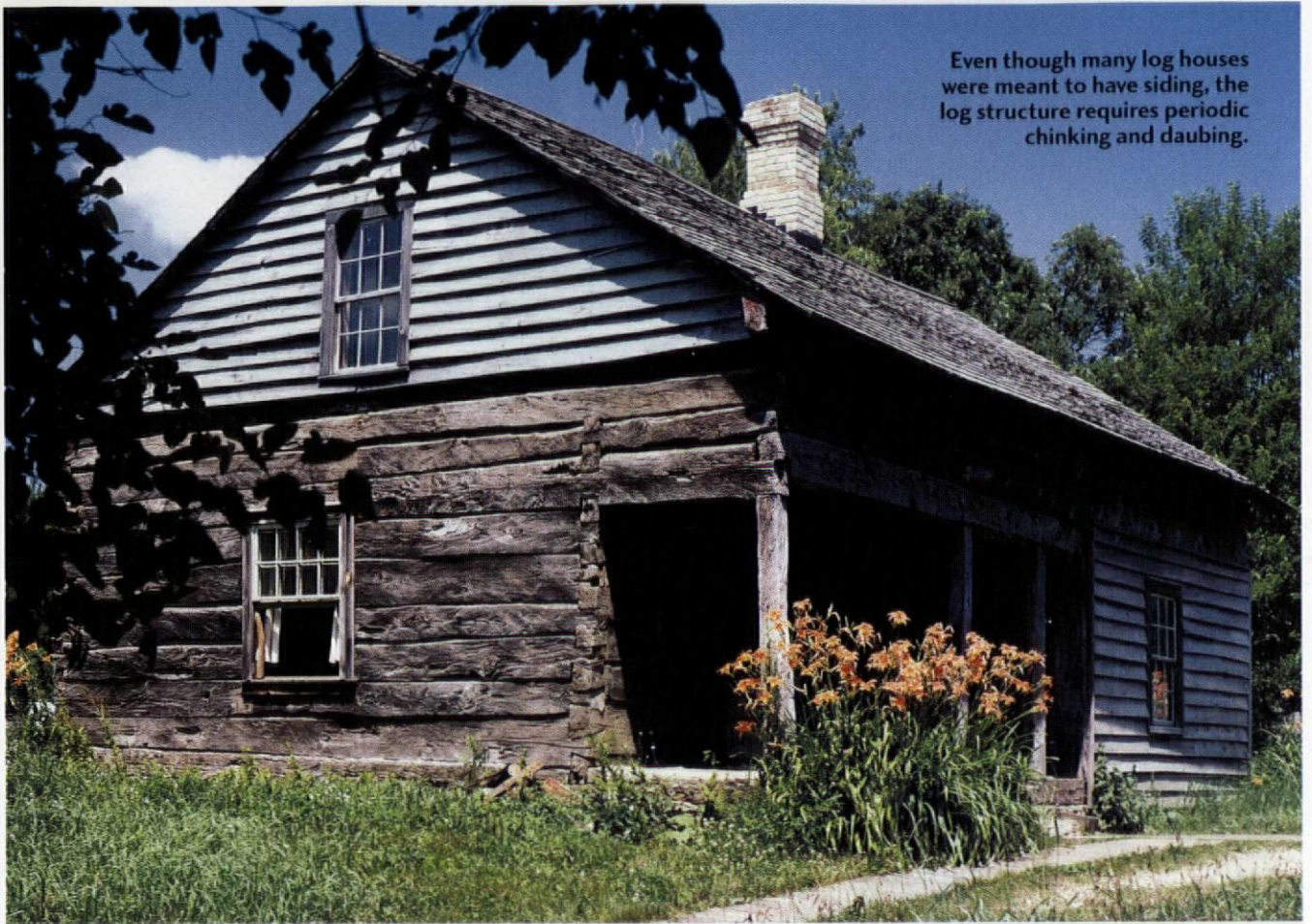
Making the Most of a Good Impression

You don't need to be a metalsmith to restore a tin ceiling.

BY MARY ELLEN POLSON



Surface rust is the foil of a metal ceiling. Spot brushing and a little paint will keep the steel in prime condition.



Even though many log houses were meant to have siding, the log structure requires periodic chinking and daubing.

and Don'ts of Insulating," May/June 1996). Thin daubing passes the moisture quickly and efficiently, but thick daubing will keep the moisture inside longer, which can cause rust and rot.

Continuously dip the trowel into water to keep it clean and so the surface will silk up and smooth out. Historically, the finished daubing surface was as smooth and flat as possible. A sleek finish propels rain off the walls faster. A rough surface that is irregular, full of exposed wood or stones (chinking), or given a brushed finish will have more surface area to slow and absorb runoff.

Insulation Breakdown

ONCE THE EXTERIOR DAUBING HAS SET UP (over about 12 hours), move inside to insulate. Kraft-faced fiberglass batt insulation is the most common choice, but will lose its R-value if it gets wet it. It also draws mice and other small rodents, who will nest in the wool, though they generally do not destroy it. Cotton insulation has the same thermal qualities as fiberglass, but if the material gets wet and dries out again, it retains its R-

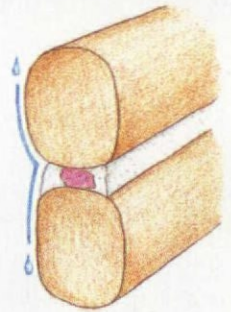
value. When rodents nest in cotton, they usually destroy it.

A better insulation, though expensive, is Air Krete (Palmer Industries, 10611 Old Annapolis Road, Frederick, MD 21701, 301-898-7848). It's an air-entrained concretelike material that is sprayed in place and completely fills the void. Air Krete provides R-3.9 per inch, will not harbor pests or rodents, and resists fire. It's non-toxic, and its R-value is not reduced if it gets wet.

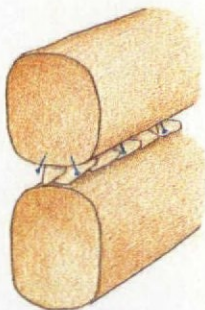
With the insulation in place, install lath on the interior. Because water runoff is not a problem, you can choose a flush surface against the upper log. Apply the daubing with the methods used on the exterior.

The method described above is not only affordable, but will extend the protection to the log frame for up to 60 years. 🏠

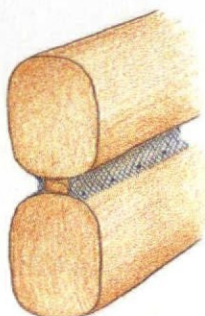
TOM MOATES restores log houses and other historic buildings, including his own home in Floyd, Virginia. DOUGLASS C. REED, president of Preservation Associates, in Hagerstown, Maryland, has restored hundreds of log houses and has written several references on the subject.



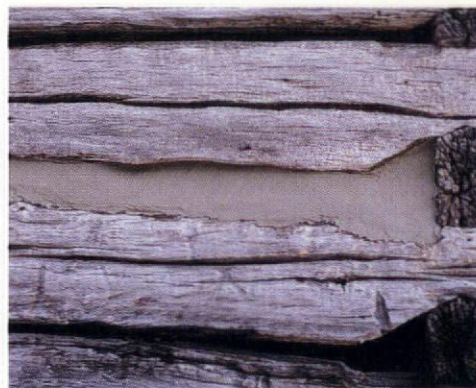
Most old-time exterior daubing was flush with the lower log's face and recessed $\frac{1}{2}$ " to 1" behind the upper log. This profile facilitates drainage of rain and snow. To accommodate the thickness of the daubing, nail the lath about $1\frac{1}{2}$ " back on the upper log and $\frac{1}{2}$ " to $\frac{3}{4}$ " back on the lower log.



Because of the potential for rust, some log house experts eschew metal lath. Instead, they anchor the daubing to the log above—where gravity is working against them—with a line of galvanized nails spaced every 4" with about 1" of nail exposed. They trowel the daubing over the nails.



Wire mesh lath should fit snugly, but it must remain as flat as possible. If the lath cups in a concave form, the center of the daubing mix may become too heavy or fall out during installation. If the lath bows out in a convex form, the daubing may be too thin in the middle and could crack horizontally.



Top: Daubing is generally applied in two coats: a rough scratch coat and a smooth finish coat. With enough experience, though, you can apply the mortar in a single step. Two coats may be easier for novices, but it often creates thick results. **Above:** Cut an R-19 (6" thick) batt about 1" wider than the crack. This way it will fill the joint and stay put. Paper or foil should face the interior—the source of heating and cooling. (In the Southwest, place the facing toward the exterior.)

will stick to the hoe in a wet chunk, hang there for a second, then fall as a blob. If it is too wet, the hoe will move through it like potato soup, and the mix won't stick to the hoe at all. If your mix gets too wet, simply add the proper proportions of dry ingredients. Finally, add the hydrated lime.

Applying Science

IF THE SUN IS OUT AND THE WEATHER IS hot, try to arrange the day's work in the shade. Keep the direct sun off the wet daubing as much as possible. If it dries too quickly, it will not be as strong and may crack. An occasional light misting from a garden hose while it cures will help.

Start at the end of the joint that corresponds to your dominant hand. (Righties start at the right; lefties at the left.) The direction of your work has to do with marrying the mortar "mud" against the previous trowelful. As you work each load of mud into place, it knits better if you push it against the previous batch. Before you start daubing, make sure you have mixed enough mud to complete the entire joint. If you stop mid-

way, the seam will be noticeable and unsightly.

The daubing process is similar to re-pointing brick masonry. Put a load of mud on a plasterer's hawk and hold it under the crack. Using a small pointed- or square-edged trowel, apply the mortar one trowelful at a time. Until you gain some experience and skill, you will almost surely push the mortar through the lath. Keep at it until you get the feel—your touch should be light enough so the mortar stays put, but hard enough that you push some mortar through the lath, creating diamond-shaped fingers on the back. These keys will droop and then dry, bonding the mortar to the lath.

After the joint is full, go back over the entire length to smooth the surface. Have several different sizes and shapes of trowel handy because the joints will vary along the logs' twists and turns. Always use the largest trowel that fits in the crack. Fill in all voids left at the edges and maintain a ½" thickness on the outside of the screen. If the material is too thick, it can retain the moisture that migrates through the wall because of climatic change (see "The Dews



ter. You'll find sandy deposits that are fairly clean high up on the banks. Shovel the sand into plastic bags and haul them back to the site. Then dump them in 2x10 frames (like cold frames without the cover) to dry. These river sands aren't clean, which gives the mortar an authentic look. For practical purposes, though, use only about $\frac{1}{3}$ river sand. The other $\frac{2}{3}$ should be store-bought, washed masonry sand.

Let's Get Cooking

USE A MORTAR BOX TO MIX CAREFULLY MEASURED batches. Never prepare more daubing than you can use in 30 to 60 minutes so it doesn't dry in the pan. Thoroughly combine mortar mix and sand with a hoe. Next add water—only a little at first—and chop it back and forth. It'll be too dry, but mix it fully and only add water gradually until the mud has the consistency of biscuit dough. Passing the threshold from too dry to too wet takes an amazingly tiny bit of water.

The mortar should be wet enough to work into the lath, but dry enough so it won't fall through it. When it's right, the mud



Above: Rethinking can add a crisp and finished appearance to a log house. Left: Custom cut the lath to fit the dimensions of the joint. Below left: Nail it securely in place, but do not nail on or around wet daubing.





Above: Inspect each log thoroughly. Wire brush, pick, and generally clean out all punky places. Right: Replacement is work for a contractor experienced in log houses. It only makes sense if damage is extensive and suitable new logs are readily available.

DAUBING RECIPE

This makes strong, flexible daubing. You can adjust the basic mix to your specific needs.

- 1 part type N mortar (white)
- $\frac{1}{2}$ part hydrated lime paste
- $\frac{3}{2}$ parts sand (one-third gathered from a local river bank)



chinking because new materials add strength, durability, and insulation to the building—without changing its appearance.

If you're rechinking, take the opportunity to add structural support. Cut 2x4 blocks that snugly fit between the logs. The nominal $3\frac{1}{2}$ " lumber width should not get in the way of the chinking and daubing. Otherwise, select 2x3s or other stock.

With the blocks in place, install metal lath to hold the daubing (see illustration, p. 50). Work on the exterior first to seal the building. Begin by cutting plasterer's diamond metal lath (26"x 8' stock is handiest) fitted to fill the joints. Or you can cut the lath over-size, nail the bottom edge, and fold the top

edge into the profile of the log above. Nail the lath along the top and bottom edges and into the 2x4 blocks. Be sure to recess the lath on the upper log (see illustration, p. 51). Use roofing nails, which have large heads, and nail securely every 4" to 6".

Make sure the wire lath is not too close to the surface. If it pops through, the resulting rust will be extremely destructive. Also test the lath by tapping it with your fingers. If you see a noticeable bounce, it needs more nails. Springy lath will flip daubing back out as you trowel it on.

Recipe for Success

NEW DAUBING MUST BE PLASTIC ENOUGH to move with the logs during changes in the weather and should look authentic in color and texture. High-tech chinking compounds sold for new log home kits are tempting, but they don't look right and are not suitable for the conditions of a historic log house. You have to make your own daubing.

If the existing daubing is historic, or if you find remnants of original materials, salvage a bit as a model for your new mix. Break apart some solid pieces and review the color, aggregate distribution, and size of the components. Crush some into a powder to examine the sand.

Start with the basic daubing recipe at left, then customize the ingredients to match existing materials in your building. It's best just to buy ready-mixed mortar, such as type N, which contains lots of lime for soft daubing. Standard portland cement is very hard and can do more damage than good as wood fibers grind against the rigid daubing. Select white mortar because gray is not a historic daubing color.

Hydrated lime does not have to be slaked, however pre-wetting hydrated lime makes it easier to mix and provides a stronger bond. Slowly pour the hydrated lime into a clean garbage can with a few gallons of water in the bottom. As you pour, stir it into a thick paste.

Using local sand is the best method for getting authentic color and texture. (Mortar colorants never look quite as good, plus they may fade over a short time and create uneven color.) The vast majority of original daubing contained stream-sediment sand gathered nearby. Go to the nearest stream or river after a period of high wa-



In this case, workers rechinked with wood chunks and then redaubed each joint before proceeding.

many other critters that live in chinking.

As you proceed, you'll have to determine how much daubing to remove. For museum buildings, where the goal is maximum preservation, specifications call for restoring only the damaged areas. For homeowners, however, rethinking the entire house may be preferable. It provides an opportunity to install electrical wiring, to find and repair damaged logs, and to insulate.

Strike each log with a hammer. The sound it makes will tell you about the log's condition. A sharp, solid ring indicates a good interior; a dull thud indicates a hollow log. Strike softly enough so you don't make dents. Mark areas of degradation with chalk on the log faces.

If you find localized rot, epoxy consolidation is a cost-effective repair that retains original logs. The drawback is that epoxy fillers are lighter in color than wood. (If the rotten sections are small, you can fill them with daubing.) The other option, log replacement, is costly and usually unnecessary.

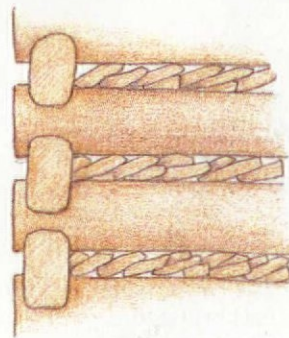
Logs are generally oversized for the structural loads they support, so don't assume that a compromised log has to be replaced. When in doubt, hire an engineer.

When working around obvious deterioration, especially at corners and openings, brace the logs directly above with 2x6s anchored to solid ground. Tack with at least two 20d double-headed nails. Beware when a rock or wood chunk doesn't readily fall out. It may support the logs above.

Most log-house owners are on the lookout for termites, yet a bewildering array of other insects and larvae love to call logs home. So, while the joints are open for inspection, bring a pest control expert on site.

Sound Chinking

STONE AND MASONRY CHINKING OFTEN SURVIVE longer than organic chinking, such as wood chunks cut from the logs during construction. You can reuse original chinking if it's in good condition. Yet even strict historic restoration projects often replace old

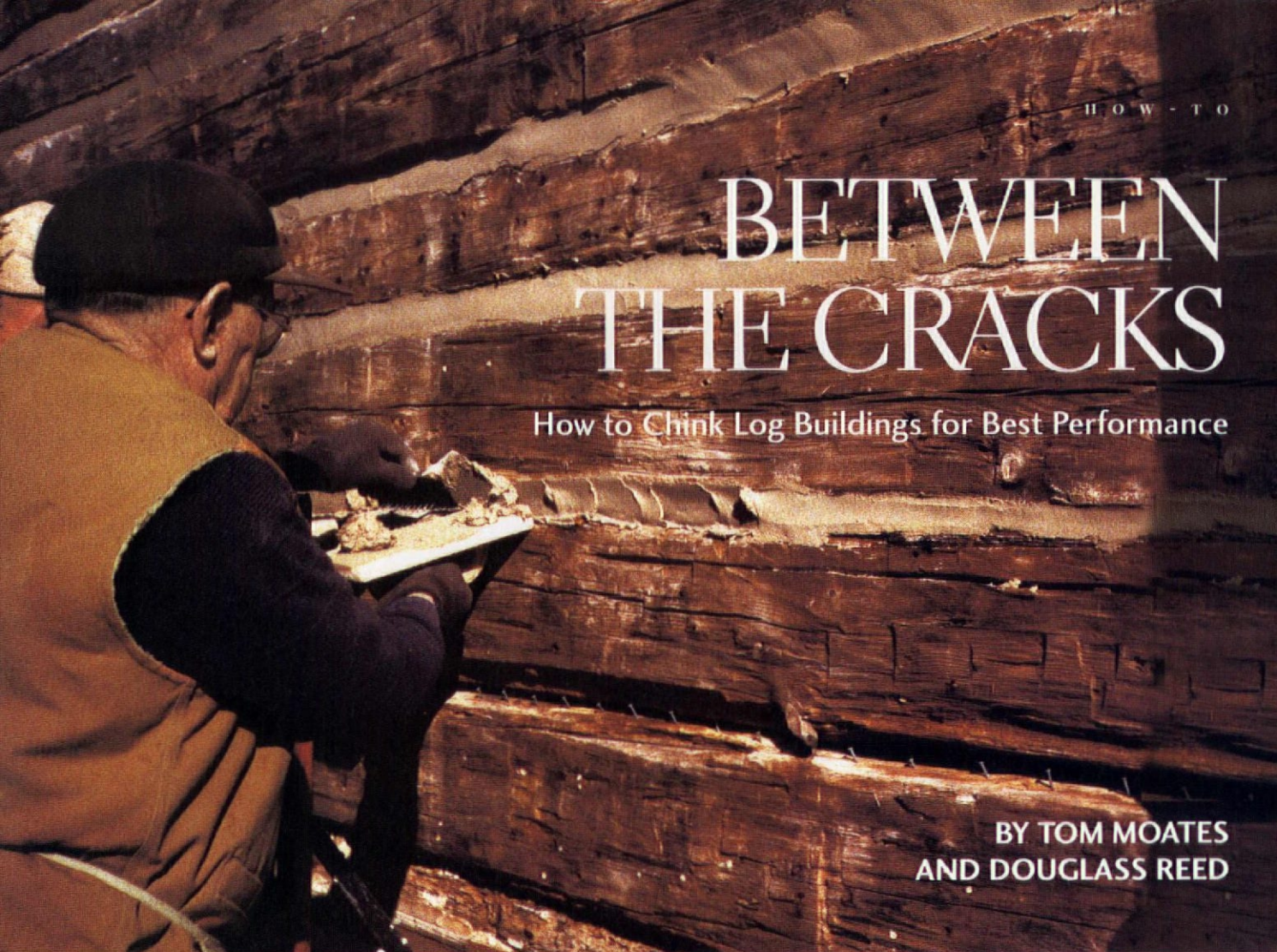


The strength of log construction comes from its stacked corners; chinking and daubing provide weather- and animal-proofing. Nonetheless, shifting, rot, or pest infestation may transfer the structural load onto the chinking.

BETWEEN THE CRACKS

How to Chink Log Buildings for Best Performance

BY TOM MOATES
AND DOUGLASS REED



The timbers in log houses are dressed flat with a broad axe; temporary log cabin timbers are round. Above: Always begin at the highest log joint and work downward so droppings do not deface completed work.

LOG HOUSES ARE NORTH AMERICA'S true home-grown architecture. In a continent rich with timber, they provided many of the first permanent dwellings. Whether they hide under the clapboard siding of a prosperous farm homestead or bare their notches as architect-designed Rustic retreats, an estimated 50,000 log houses still stand today.

The least durable part of the sturdy construction is the filler between the logs: stones and wood chunks called *chinking* covered with mortar called *daubing*. Log houses with exposed walls need these materials replaced every 20 to 30 years (80 to 100 years if they're protected by siding). Here's how to renew chinking and daubing.

Daubing Demolition

OLD DAUBING SHOULD COME LOOSE WITH THE tap of a hammer, but for tough spots use a prybar or masonry chisel. Compressed air works well for cleaning hard-to-reach spots. Watch out for bees, snakes, squirrels, and the

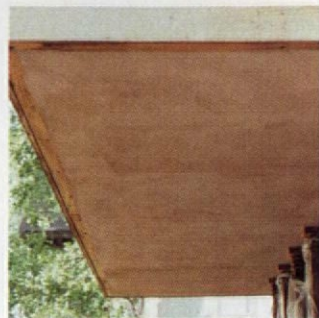




The new steel (1) clamped to the original I-beam (2) for fastening.




Top: The open soffit after structural steel has been installed. Note the fastening plate installed on the inside of the fascia. The steel strips are furring for the stucco lath. Above: The finished cantilever.



Once the cantilever was in position, they set about strengthening the members.

The team bolted pieces of angle iron (L-shaped steel) to the ends of the old I-beams using joining plates. Next, they fastened the new steel to the wood framing in the overhang at several points. They installed steel plates on the fascia to pull it in, straighten it, and attach it firmly to the new steel. Workers also installed plywood gussets between the rafters and the soffit joists, to add strength and rigidity to the cantilever. They attached narrow steel furring strips and then steel mesh lath to the soffit for the stucco.

The ultimate indicator of success in the Purcell-Cutts House restoration is that casual observers cannot tell the museum did any work. "Many people visit the house and tell us how lucky we are that we didn't have to do anything" to it, said former Curator Michael Conforti. 

The Purcell-Cutts House is open to the public during the second weekend of every month. General admission is \$3. Call for or write for information and for reservations, which are required: The Minneapolis Institute of Arts, 2400 Third Avenue South, Minneapolis, MN 55404, (612) 870-3131.



William, Edna, and their children.

Little House of the Prairie School

While it existed between 1909 and 1922, the firm headed by William Gray Purcell & George Elmslie (or P&E, as the architects called their firm) was the most prolific among the Prairie School practitioners following the lead of Louis Sullivan and Frank Lloyd Wright. More than 50 P&E designs, mostly houses, were constructed. They are scattered from Portland, Oregon, to Woods Hole, Massachusetts, but most of P&E's work was done in Minneapolis, the site of their main office.

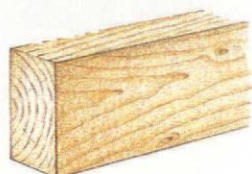
P&E began work on a house for Purcell and his family in 1912. Construction, including a modest expansion, was completed in 1915. Interestingly, Purcell's wife took the role of client for the project, and the original drawings refer to the house as the Edna S. Purcell house. The house's last private owner, Anson B. Cutts Jr., bequeathed it to The Minneapolis Institute of Arts in 1985, along with an endowment earmarked for restoration.

Purcell left a significant written record about his house. In memoirs, he wrote that the design reflected the life lived by his family. Purcell lovingly recorded where, what, and when the family ate (the hearth; bread, milk, cookies, and apples; Sunday evenings). He wrote with pride about the house's mechanical systems, including the screw-drive automatic coal feeder and the air conditioner, neither of which, he noted, worked very well.

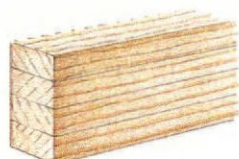
Utterly Beaming

Many residential buildings require structural restoration—for sway-backed ridges, sagging floors, or spreading walls. Additions, too, often mean redistributing the weight of the old house over a wide opening. To do any of this, you'll need the help of strong beams.

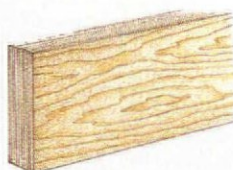
Many of the modern manufactured beams used for new construction make excellent retrofit materials for old houses. Steel I-beams are the strongest option, but not necessarily the best because of the difficulties in cutting and welding the material on site. Engineered wood is easier to work, cheaper, and often available as stock material. Some options to consider:



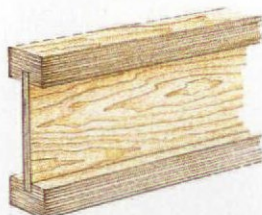
WOOD



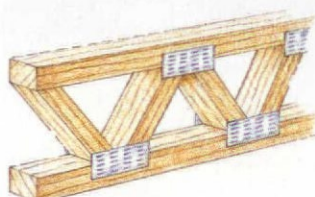
GLUE-LAMINATED LUMBER



LAMINATED VENEER LUMBER



I-JOIST



TRUSS

WOOD: The original structural material, long wood timbers are weighty, large, and, these days, hard to come by. Plus, they may contain structural imperfections, such as knots.

GLUE-LAMINATED LUMBER (GLUE-LAM): The engineered beam most widely used in old-house restoration, glue-lam is composed of four or more layers of stock, each about 1 1/2" thick. The boards are end-joined to create any desired length and bonded face to face with adhesive. Glue-lam beams are very strong, can be virtually any length and dimension, and a wide variety of shapes, such as round or pointed arches. You cannot, however, notch or pierce them for pipes or ductwork.

LAMINATED VENEER LUMBER (LVL): Made by adhering thin wood veneers, LVL is a wood sandwich much like plywood, except the grain in the veneers is parallel. Standard LVL beams run 1 1/2" to 3 1/2" wide, but they can be sistered for thicker beams. That means you can bring each piece into the building individually before assembling them into a bulky beam. It's also very easy to work. You cannot notch or pierce it, however, and it's unwieldy for spans longer than about 20'.

I-JOIST (I-BEAM): The top and bottom of a beam do all the work. As gravity tries to bow the member, it compresses the top and stretches the bottom. The material in between simply holds the top and bottom together—and adds weight and mass. So the I-shaped beam has wide flanges with a thin web between them. I-beams are narrow, light-weight (about 2 pounds per linear foot for most applications), and as strong as an equivalent wood joist. You can order them in any length and can pierce the web. Handle with extreme care during transportation, site-storage, and installation.

TRUSS: The truss consists of two chords with diagonal members running between them. The result is a strong beam that can carry heavy loads across long expanses. Trusses are commonly used for the wide, flat roof spans of industrial settings. A big plus is that it's easy to pass ducts and pipes through trusses because of the open spaces. Also, trusses are the only material besides glue-lam that you can order in a variety of shapes, including the structure of an entire gable roof. You cannot modify trusses in the field.

ance is tight. To provide enough strength, wood members—even engineered lumber such as glue-lam—would have been too big.

The glue-lam beams were too long to bring through the house and up the stairs. So Kopp and MacDonald took advantage of the leaking built-up roofing, which needed replacement anyway. Restoration workers removed the old roofing, then cut "doors" in the sheathing to insert the reinforcing materials.

Return of the Folding Wall

THE SAGGING MAIN ROOF HAD LED TO INTERIOR problems, too. In an early attempt to halt the roof's descent, someone had placed 2x4 bracing in the attic between the second-floor ceiling and the roof. Instead of stopping movement, the bracing forced the ceiling down with the sagging roof.

This chain of events affected one of the house's most unusual elements: a folding wall between two upstairs bedrooms, much like the dividers in convention halls and classrooms today. (Late in life, Purcell wrote proudly that the wall was a practical example of the Modernist dictum, "form follows function," a quote from fellow Midwest architect Louis Sullivan). The folding wall, now bearing weight from above, became compressed, slightly bowed, and inoperable.

Stabilizing and leveling the roof elements relieved some of the pressure, but it didn't free up the mechanism, which includes a track in the ceiling. To finish the job, workers strung steel supporting cables between the roof rafters and the ceiling above the track, then tightened turnbuckles to lift the track into place (see photo, p. 42).

Lifting the Cantilever

THE SAGGING FIRST-STOREY CANTILEVER was a simpler repair. After removing the stucco from the soffit and discovering that the steel I-beams reached only halfway into the 7' eaves, Kopp devised a solution. Had the I-beams been long enough to reach the front edge, there might never have been a problem. The cure was simply to lengthen them (see illustration, p.41). The restoration team jacked up the cantilever to its proper position. They built T-shaped posts from 2x4s and set them on screw jacks under the outer edge of the cantilever (see opposite).

job. This advantage was crucial since it was impossible to specify exact dimensions ahead of time. (Workers had to jack the structure up to the correct position before they could measure for reinforcing members.) Second, welding inside the dusty, cramped quarters of the attic would be too dangerous. Kopp chose glue-lam over solid wood because the material is stronger. Even if 32'-long, solid wood beams could have been found, which is doubtful, they would need to be much thicker than glue-lam to have the same strength and stiffness—a particular problem given the tight clearances involved.

Kopp did specify steel for rectangular tubes—key elements in the structural system that were bolted to the four original ridge rafters as stiffeners (see opposite). In this case steel worked better than wood because it resists bending forces about 20 times better than solid fir of the same dimensions. That means the steel reinforcement tubes are relatively thin, so they can extend out near the ends of the ridge rafters where the clear-



Prairie innovation: the Purcell interior.

the house's original owner and co-architect. Records show that Purcell worried about the cost of his house, but that his taste was expensive (above). Second, it may be that, with an attitude of "aesthetics-now-pay-later," the architects knowingly chose undersized framing in an attempt to achieve a thin roof profile. Because of lack of work due to World War I, Purcell and his family moved from the house after only a few years, so he probably never had to deal with the sagging cantilevers. Third, the wrong framing may represent decisions made by carpenters, who constructed a highly experimental house. They could not have had much, if any, experience in creating 7' cantilevers.

Why Did It Fail?

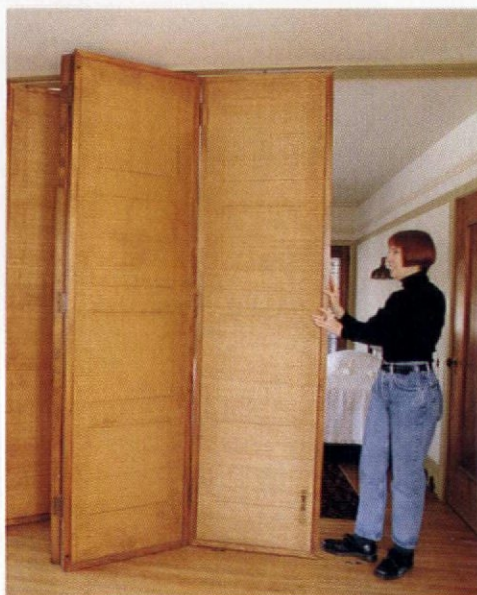
Even with the original plans and voluminous writings left by Purcell, just why the roof framing was under-built is unclear. It's a matter of debate among Purcell-Cutts House restorers. There are three leading theories: First, it may be the result of cost-cutting by William Purcell,

The first-storey cantilever has been leveled and stabilized. Workers have replaced the stucco and are wrapping up a day's work in this photo shot as documentation of the project.





Top: The glue-lam beam made a good place to fasten an electrical junction box. Note, too, the steel tube used to stabilize the ridge rafter. **Above:** Cables and turnbuckles pull the second floor up and free the guideway for the folding wall. **Right:** Curator Jennifer Komar operates the folding wall, a favorite stop on house tours.



over the years, someone had added stucco to the undersides to make the soffit appear level. This started a vicious cycle: the weight of more stucco contributed to the sagging, which was “corrected” by more stucco. Preliminary surveys found as much as 4" of stucco in some soffits.

To devise a solution that effectively straightened the cantilever, stabilized the main roof, and preserved as much of the building fabric as possible, the museum put together a restoration team led by architect Stuart MacDonald and consulting engineer Elmer Kopp. Together, they found a way to avoid a total replacement of the roof structure, which the museum simply could not afford.

Raising the Roof

IN ORDER TO LIFT THE MAIN ROOF FRAMING members to their original position, Kopp and MacDonald had to find a bearing point from which to stabilize the rafters. Original construction drawings showed a steel I-beam in the second-storey floor supporting a wide span of ceiling above the open-floor plan below. If the beam existed as it was drawn, it could become the much-needed bearing point. The plans showed that all loads placed on the I-beam would be transferred through strong structural elements directly to footings in the basement.

As drawn, the beam was located in the space beneath two closets. Curators had decided the closets were not critical for interpreting the history of the house, so they were disassembled to gain access to the space. To the delight and relief of all, the I-beam was there, exactly as drawn. Kopp and MacDonald were able to design a structural skeleton to take advantage of this support (see illustration, p. 41).

They built two wood columns extending from the I-beam to the attic, where they each support the middle of a 32' glue-lam beam (see “Utterly Beaming,” p. 44). The ends of the beams extend to the exterior walls, which bear them. Since the beams had to be positioned over windows, rather than solid wall, workers reinforced the headers over the openings. Then they built conventional 2x4 framing from each beam to the rafters.

Kopp considered a steel beam, but rejected the option for several reasons. First, workers could easily cut wood to size on the

IN 1912 WILLIAM PURCELL, A PROMINENT Prairie School architect, designed a cutting-edge house for his family. He included innovations such as an automatic coal feeder for the furnace, air conditioning, and an open, utilitarian floor plan. The construction, too, was revolutionary. For example, the cantilever roof over the first-storey wing projects 7' without the support of post or pillar. It's one component of a climate control system intended to manage sunlight as it enters the house at different angles through the seasons.

Despite a modern design that included steel I-beams—or perhaps because of it—this building was plagued by structural problems for years. When the Purcell–Cutts House, as it is now called, was bequeathed to The Minneapolis Institute of Arts, the main roof was sinking and the first-storey cantilever was sagging, so the museum began a major restoration campaign aimed not only at stopping the progressive deterioration of the roofs, but bringing the building

back to its original state. A look at the materials and methods they chose is a good education in today's options for load-bearing members and how they can be introduced in old houses of any scale.

A Two-Headed Dragon

THE PRIMARY OBJECTIVE WAS TO STABILIZE the main roof—a gently sloping hipped structure typical of the Prairie School. While the 2x6 roof rafters and ceiling joists might have sufficed for the triangular geometry of a gable roof, they were seriously undersized for the low pitch—barely 1' of rise over 4' of run—of Purcell's roof. As a result, each plane of the 30' x 40' hipped roof had begun to drop.

A secondary goal centered on leveling the projecting first-storey roof. This cantilever (a structural member that overhangs its supports) drooped as much as 4" because the two steel I-beams that carry it only extended half the length of the projection. To make matters worse, as the cantilever drooped

Opposite: The Purcell–Cutts House is a significant example of Prairie School architecture, which rejected historical styles and looked for inspiration to the rolling prairies of the Midwest. **Below:** The stabilization project focused on two structural faults, the main hipped roof and the cantilever that overhangs the first-storey wing.

ANATOMY OF A RESTORATION

In the main roof, restorers constructed a framework from the second-storey floor to hold the ridge rafters. In the cantilever over the first-storey wing, they extended the short beams to the full 7' of the overhang.

